CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 16, 1907.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
May				
•18—	Breakwater superstructure..	Buffalo, N. Y.	S. & B. S.	4-25
•21—	Ditches..	Mitchell, Neb.	P., S. & B. S.	4- 4
•21—	Riprap..	New Haven, Conn.	S. & B. S.	4-25
21—	Engineering supplies..	Tompkinsville, N. Y.	S. & B. S.	5- 2
•21—	Paving..	Bridgeport, Conn.	S. & B.	5- 2
•22—	Dredging..	New London, Conn.	S. & B. S.	4-25
22—	Pier, breakwater..	Erie, Pa.	S. & B. S.	5- 2
25—	Dredging..	Boston, Mass.	S. & B. S.	5- 2
•27—	Pier superstructure.....	Harbor Beach, Mich.	S. & B. S.	4-25
28—	Sewers..	St. Joseph, Mich.	S. & B. S.	5- 2
•28—	Canal, etc..	Belle Fourche, S.Dak.	S. & B. S.	4-25
•31—	Dredging..	Tarrytown, N. Y.	S. & B. S.	5- 2
June				
1—	Power plant apparatus..	Portsmouth, N. H.	S.	5- 2
1—	Motor generator sets..	New York, N. Y.	S.	5- 2
1—	Laundry..	Portsmouth, N. H.	S.	5- 2
•1—	Harbor excavation..	Buffalo, N.Y.	S. & B. S.	5- 2
1—	Dam..	Portland, Ore.	S. & B. S.	4-25
•1—	Sewer outlet..	Ft. Monroe, Va.	S.	5- 2
•6—	Dike..	Grand Chain, Ill.	S. & B. S.	5-16

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
May 20.	Electrical equipment	New York, N. Y.	May	9
May 20.	**Equipment**	**Los Angeles, Cal.**	**Mar.**	**28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.			
May 21.	Electrical equipment	Chicago, Ill.	May	9
May 21.	Supplies	Washington, D. C.	May	16
May 24.	Lighting fixtures	Washington, D. C.	May	9
May 27.	Light plant	Farnham, Que.	May	16
May 28.	Supplies	Washington, D. C.	May	16
May 28.	Equipment	New York, N. Y.	May	16
May 28.	Dam, power-house	Fergus Falls, Minn.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 29.	Gas franchise	Clifton Forge, Va.	May	9
May 29.	Electrical apparatus	Chicago, Ill.	May	2
June 1.	Motor generator sets	New York, N. Y.	May	2
June 1.	Power plant apparatus	Portsmouth, N. H.	May	2
June 1.	**Electric fixtures**	**Fort Wood, N. Y.**	**Apr.**	**18**
June 1.	Electric plant	Lawrence, Ind.	May	9
June 1.	Lighting	Fort Strong, Mass.	May	16
June 3.	Wiring, etc.	Washington, D. C.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 6.	Lighting plant	Dora, Ala.	May	16
	Advertised, Eng. News, May 16 and 23.			
June 10.	Smokestack	Ft. Adams, R. I.	May	16
June 11.	Supplies	Washington, D. C.	May	16
June 12.	Light plant	Fort Wayne, Ind.	May	2
June 14.	Equipment	Philadelphia, Pa.	May	16
	Advertised, Eng. News, May 16 to June 13.			

BRIDGES.

May 18.	Bridge	Shelbyville, Ind	May	9
May 18.	Bridge, Point Marion	Pa.	May	16
May 18.	Bridge	Lancaster, Ohio	May	16
May 20.	Bridge	Purcell, Ind. T.	May	9
May 20.	**Bridge**	**Emporia, Va.**	**May**	**2**
May 21.	Bridge	Cressona, Pa.	May	16
May 22.	Bridge	Urbana, Ill.	May	16
May 22.	Bridge	Hanover, Ont.	May	9
May 23.	Viaduct	Jersey City, N. J.	May	16
May 24.	Viaduct	Milwaukee, Wis.	May	16
	Advertised, Eng. News, May 16.			
May 24.	Bridges	Reading, Pa.	May	16
	Advertised, Eng. News, May 16.			
May 24.	Bridge	Holladay, Va.	May	16
May 25.	Bridges	Cleveland, Ohio	May	16
May 25.	Bridge	Logan, Ohio	May	9
May 27.	Arch, etc.	Canandaigua, N. Y.	May	9
	Advertised, Eng. News, May 2-9.			
May 27.	**Superstructures, etc.**	**Chillicothe, Ohio.**	**May**	**2**
May 27.	Bridge	New Haven, Conn.	May	16
	Advertised, Eng. News, May 16.			
May 27.	Bridge	Pittsburg, Pa.	May	16
June 1.	Removing bridge	Washington, D. C.	May	16
	Advertised, Eng. News, May 16 and 23.			
June 3.	Bridges	Dillon, Mont.	May	16
June 3.	Sub & superstructures	Wapakoneta, Ohio.	May	16
June 3.	Bridge	Colfax, La.	May	16
June 4.	Bridge	Pensacola, Fla.	Apr.	18
	Advertised, Eng. News, Apr. 18.			
June 5.	**Trestle, etc.**	**Portland, Ore.**	**May**	**9**
	Advertised, Eng. News, May 9-30.			
June 15.	Trestle, etc.	Ft. Dade, Fla.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 26.	Bridges, etc.	Mitchell, Neb.	May	9
	Advertised, Eng. News, May 9-30.			

BUILDINGS.

May 17.	Gymnasium	Whipple, Ariz.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 2.			
May 20.	Lamp shop	Tompkinsville, N. Y.	Apr.	18
	Advertised, Eng. News, Apr. 18 and 25.			
May 20.	Schools	New York, N. Y.	May	9
May 27.	Custom house	Washington, D. C.	May	2
May 27.	Schools	New York, N. Y.	May	16
May 28.	Post-office	New York, N. Y.	May	2
May 31.	Bakery machinery	Des Moines, Idaho	May	9
June 1.	Heating	Ft. McPherson, Ga.	May	2
June 1.	Laundry	Portsmouth, N. H.	May	2
June 4.	**State Capitol**	**Pierre, S. Dak.**	**Mar.**	**7**
June 5.	Grain elevator	Montreal, Que.	May	16
June 6.	Post office	Wichita, Kan.	May	9
	Advertised, Eng. News, May 9-16.			
June 11.	Heating, etc.	Seattle, Wash.	May	16
	Advertised, Eng. News, May 16 and 23.			
June 13.	Post office	Meriden, Conn.	May	9
	Advertised, Eng. News, May 9 and 16.			
June 15.	Ice plant, etc.	Fort Dade, Fla.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 17.	Post-office	Webster City, Iowa	May	16
June 24.	Post-office	Ogden, Utah	May	16
June 29.	School	Bayonne, N. J.	May	16
	Advertised, Eng. News, May 16 to 30.			
July 1.	**Pulp plant**	**Niagara Falls, N. Y.**	**May**	**2**

WATER SUPPLY AND IRRIGATION.

May 16.	**Cleaning strainers**	**Galveston, Tex.**	**Apr.**	**18**
	Advertised, Eng. News, Apr. 18 and 25.			
May 17.	Ditch	Alexandria, Minn.	May	2
May 17.	Cast-iron pipe, etc.	Brandon, Man.	Apr.	25
May 21.	**Ditches**	**Mitchell, Neb.**	**Apr.**	**4**
	Advertised, Eng. News, Apr. 4 to 25.			
May 22.	Reservoir, pipe, etc.	Swanton, Vt.	May	9
	Advertised, Eng. News, May 9-16.			
May 24.	Water-works	Zumbro Falls, Minn.	May	16
May 27.	Buildings, wells, etc.	Cincinnati, Ohio	May	2
	Advertised, Engineering News, May 2 to 16.			
May 28.	**Canal, etc.**	**Belle Fourche, S. Dak.**	**Apr.**	**25**
	Advertised, Eng. News, Apr. 25 to May 16.			
May 28.	Water-works	Comanche, Ind. T.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 29.	Water mains	New York, N. Y.	May	16
May 30.	Water-works	Thomas, Okla.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 31.	Reservoir	Belding, Mich.	May	16
	Advertised, Eng. News, May 16.			
May 31.	Pipe, etc.	Cincinnati, Ohio	May	16
May 31.	Laying pipe	Cincinnati, Ohio	May	9
June 1.	Ditch	Des Moines, Iowa	May	16
June 3.	Water-works	Bigtimber, Mont.	May	16
June 3.	Water-works	Nacogdoches, Tex.	May	16
	Advertised, Eng. News, May 16 to 30.			
June 3.	Water pipe	Philadelphia, Pa.	May	16
	Advertised, Eng. News, May 16 to 30.			
June 3.	Well, etc.	Fort Bliss, Tex.	May	21
June 4.	Engine	Atlantic City, N. J.	May	9
	Advertised, Eng. News, May 9-16.			
June 4.	Water mains	Alexandria, La.	May	16
June 5.	Dike	Crawford, Neb.	Mar.	21
	Advertised, Eng. News, Mar. 21 to Apr. 11.			
June 5.	**Filter plant**	**Burlington, N. J.**	**Apr.**	**25**
	Advertised, Eng. News, Apr. 25 to May 30.			
June 17.	Pumping engine	Bellaire, Ohio	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 19.	**Water-works, etc.**	**Romney, W. Va.**	**Apr.**	**25**
June 28.	Laying pipe, etc.	Passaic, N. J.	May	16
	Advertised, Eng. News, May 16 to June 27.			
July 1.	**Dam**	**Portland, Ore.**	**Apr.**	**25**

SEWERAGE.

May 18.	Sewers	Des Moines, Iowa	May	9
May 20.	Sewer	Albany, N. Y.	May	16
May 20.	Sewer, Hot Springs	Ark.	May	2
May 20.	Sewers, Barberton	Ohio	May	2
	Advertised, Eng. News, May 2-9.			
May 20.	Sewers	Oakmont, Pa.	May	16
May 21.	Sewers and paving	Oak Park, Ill.	May	16
May 21.	Sewers, Wells	Minn.	May	9
May 21.	Sewers, St. Louis	Mo.	May	9
May 22.	Sewers	Buffalo, N. Y.	May	16
May 27.	Sewer, Washington	D. C.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 27.	Manhole covers, etc.	New York, N. Y.	May	16
May 28.	Sewer, etc.	New York, N. Y.	May	16
May 28.	Sewers, St. Joseph	Mich.	May	2
May 29.	Sewers, Aberdeen	Wash.	May	9
May 30.	**Sewers, Norfolk**	**Va.**	**May**	**2**
	Advertised, Eng. News, May 2-23.			
May 31.	Sewers, Dowagiac	Mich.	May	16
May 31.	Sub-sewer, Bellingham	Wash.	May	16
June 1.	Sewers, etc., Morristown	N. J.	May	16
	Advertised, Eng. News, May 16 and 23.			
June 1.	**Sewer outlet, Ft. Monroe**	**Va.**	**May**	**2**
	Advertised, Eng. News, May 2-23.			
June 3.	Sewers, Cape Girardeau	Mo.	May	9
June 3.	Sewers, Caney	Kan.	May	9
June 4.	Sewers, Fairbury	Neb.	May	9
June 4.	**Sewer pipe, Alexandria**	**La.**	**May**	**2**
June 4.	Sewers, etc., Springfield	Ohio	May	16
	Advertised, Eng. News, May 16 and 23.			
June 6.	Sewer, Parkersburg	Va.	May	16
	Advertised, Eng. News, May 16 and 23.			

STREETS AND ROADS.

May 17.	Paving, Mason City	Iowa	May	16
May 18.	Paving, Louisville	Ky.	May	16
May 18.	Paving, etc., Cleveland	Ohio	May	16
May 18.	Paving, etc., Oshkosh	Wis.	May	16
May 18.	Paving, etc., San Francisco	Cal.	May	9
May 18.	Paving, etc., Gary	Ind.	May	9
	Advertised, Eng. News, May 9.			
May 18.	**Walks, Ft. Benj. Harrison**	**Ind.**	**Apr.**	**25**
May 20.	Paving, etc., Des Moines	Iowa	May	9
May 20.	Paving, etc., Webb City	Mo.	May	9
May 20.	Road, Woodstock	Vt.	May	9
May 20.	**Sidewalks, etc., Montgomery**	**Ala.**	**May**	**9**
May 20.	**Paving, Goshen**	**Ind.**	**May**	**9**
May 20.	Paving, etc., Osceola	Iowa	May	16
May 20.	Paving, sewers, etc., Albany	N. Y.	May	16
May 21.	Paving, etc., Auburn	N. Y.	May	16
May 21.	Paving, etc., Columbus	Ohio	May	16
May 21.	Paving material, Escanaba	Mich.	May	16
May 21.	**Paving, Bridgeport**	**Conn.**	**May**	**2**
	Advertised, Eng. News, May 2-9.			
May 21.	**Highway, Norwalk**	**Ohio**	**May**	**2**
May 21.	Road, Pittsfield	N. H.	May	9
May 21.	Macadam, etc., Plymouth	Ohio	May	9
May 22.	**Highway, Mansfield**	**Ohio**	**May**	**2**
May 22.	Grading, etc., New York	N. Y.	May	9
May 22.	Graveling, Marysville	Ohio	May	16
May 23.	**Roads, Cape May**	**N. J.**	**May**	**2**
	Advertised, Eng. News, May 2-16.			
May 23.	**Highway, Lisbon**	**Ohio**	**May**	**9**
May 24.	Paving, etc., Louisville	Ky.	May	16
May 24.	Road, Williamsport	Pa.	May	16
May 27.	Paving, Halifax	N. S.	May	16
	Advertised, Eng. News, May 16.			
May 27.	Paving, etc., Cincinnati	Ohio	May	16
May 27.	Paving, etc., Lindsley	Ohio	May	16
May 27.	Paving, etc., New York	N. Y.	May	16
May 27.	**Curb, etc., Albert Lea**	**Minn.**	**May**	**2**
May 28.	Broken stone, etc., New York	N. Y.	May	9
May 28.	Paving, etc., Cincinnati	Ohio	May	16
May 28.	Broken stone, etc., New York	N. Y.	May	16
May 29.	Paving, Glens Falls	N. Y.	May	16
	Advertised, Eng. News, May 16.			
June 1.	Paving, etc., Cleveland	Ohio	May	16
June 1.	Sidewalks, Ft. D. A. Russell	Wyo.	May	9
June 1.	Sidewalks, Ft. Logan H. Roots	Ark.	May	9
June 1.	Sidewalks, etc., Ft. Mott	N. J.	May	9
	Advertised, Eng. News, May 9 and 16.			
June 1.	Roads, etc., Ft Screven	Ga.	May	9
June 1.	Paving, etc., Indianapolis	Ind.	May	9
June 1.	Macadam, Ft. Hancock	N. J.	May	2
	Advertised, Eng. News, May 2-23.			
June 3.	Sidewalk, Pleasant Ridge	Ohio	May	16
June 3.	Paving, etc., Sandusky	Ohio	May	16
June 3.	Paving, Belvidere	N. J.	May	16
June 3.	**Roads, Greensburg**	**Ind.**	**May**	**16**
June 3.	Macadam, etc., English	Ind.	May	16
June 4.	Paving, etc., Piqua	Ohio	May	16
June 4.	Highway, Ashland	Ohio	May	16
June 6.	Highway, Cambridge	Ohio	May	16
June 12.	Roads, Freehold	N. J.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 25.	Paving, etc., Reynoldsville	Pa.	May	9

MISCELLANEOUS CONTRACTS.

May 16.	Ventilating equipment	New York, N. Y.	May	9
May 16.	Tunnel entrance	Boston, Mass.	May	9
May 17.	Repairing baths	New York, N. Y.	May	9
May 17.	Supplies, piles	New York, N. Y.	May	9
May 17.	River improvement	Buffalo, N. Y.	May	9
May 17.	Repairing railway	Florida	May	16
May 18.	Grading, etc., Denison, Bonham & New Orleans		May	9
May 18.	**Breakwater superstructure**	**Buffalo, N. Y.**	**Apr.**	**25**
	Advertised, Eng. News, Apr. 25 to May 16.			
May 18.	Dredging	Victoria Harbor, Ont.	May	16
May 20.	Iron, steel, etc., Watertown	Mass.	May	2
May 20.	Fire system	Washington, D. C.	May	2
May 20.	French scrap dump cars	Panama	May	9
May 20.	Jetty construction	Wilmington, Del.	May	9
	Advertised, Eng. News, May 9 and 16.			
May 20.	Steel rails, etc.	Panama	May	16
May 21.	Grading, etc., Georgia & Florida Ry.		May	9
	Advertised, Eng. News, May 9 and 16.			
May 21.	Repairing ferry boats	New York, N. Y.	May	9
May 21.	Riprap embankment	New York, N. Y.	May	9
May 21.	Engineering supplies	Tompkinsville, N.Y.	May	2
May 21.	**Riprap, New Haven**	**Conn.**	**Apr.**	**25**
	Advertised, Eng. News, Apr. 25 to May 16.			
May 21.	Light-house supplies	Tompkinsville, N.Y.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 22.	Dredging	New London, Conn.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 22.	Pier, breakwater	Erie, Pa.	May	2
May 22.	Railway	Cairo & Thebes	May	2
	Advertised, Eng. News, May 2-16.			
May 22.	**Headstones**	**Boston, Mass.**	**May**	**2**
May 22.	Wharf	Sorel, Que.	May	9
May 22.	Removal of garbage, etc.,	Schenectady, N. Y.	May	16
	Advertised, Eng. News, May 16.			
May 24.	Fire engines, etc.	Washington, D. C.	May	16
May 24.	**Levee bldg. machine**	**New Orleans, La.**	**May**	**2**
	Advertised, Eng. News, May 2-16.			
May 25.	Dredging	Boston, Mass.	May	2
May 25.	Ditch	Vandalia, Ill.	May	9
May 25.	Crematorium	Washington, D. C.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 27.	Dredging	New York, N. Y.	May	2
	Advertised, Eng. News, May 2 to May 23.			
May 27.	**Pier superstructure**	**Harbor Beach, Mich.**	**Apr.**	**25**
	Advertised, Eng. News, Apr. 25 to May 16.			
May 28.	Caisson	Philadelphia, Pa.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 28.	Retaining wall	Oneida, N. Y.	May	16
May 29.	Dredging	Galveston, Tex.	May	16
May 29.	Breakwater	Petoskey, Mich.	May	16
	Advertised, Eng. News, May 16 and 23.			
May 29.	Creosoted lumber, rubble stone	Charleston, S. C.	May	9
	Advertised, Eng. News, May 9 to 23.			
May 31.	**Dredging**	**Tarrytown, N. Y.**	**May**	**2**
	Advertised, Eng. News, May 2 to May 23.			
May 31.	Filtering materials	Philadelphia, Pa.	May	16
	Advertised, Eng. News, May 16 to 30.			
June 1.	**Harbor excavation**	**Buffalo, N. Y.**	**May**	**2**
	Advertised, Eng. News, May 2 to May 23.			
June 1.	Repairing Statue of Liberty	New York.	May	9
June 1.	Wharf repairs	Ft. Washington, Md.	May	9
June 1.	Levee	Memphis, Tenn.	May	9
	Advertised, Eng. News, May 9 to 23.			
June 1.	Breakwater superstructure	Oswego, N. Y.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 3.	Dredging	Baltimore, Md.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 4.	Lock and dam..	Irvine, Ky.	May	9
	Advertised, Eng. News, May 9 to 23.			
June 5.	Trestle rock work	Portland, Ore.	May	16
June 6.	Dredging plant	Detroit, Mich.	May	16
June 6.	Riprap	Ashland, Wis.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 6.	Dike	Grand Chain, Ill.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 7.	Riprap	Bridgeport, Conn.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 7.	**Dredge**	**Philadelphia, Pa.**	**May**	**2**
	Advertised, Eng. News, May 2 to May 23.			
June 7.	Riprap	Washington, D. C.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 10.	Shelter for trucks	Fort Totten, N. Y.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 13.	Hydraulic dredge	Washington, D. C.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 14.	Dams, shore protection	Rock Island, Ill.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 15.	Cement	Los Angeles, Cal.	May	16
June 15.	Jetty work	Sabine Pass, Tex.	May	16
	Advertised, Eng. News, May 16 to June 6.			
June 15.	**Dredging**	**Hawaii**	**Apr.**	**25**
July 1.	Tunnel	New Zealand (Foreign)	Sept.	13
	Advertised, Eng. News, Sept. 13 to Mar. 14.			
Sept. 2.	Competitive plans for wharf, etc., Sweden (Foreign)		May	2
Sept. 2.	Timber	Portland, Ore.	May	16

CIVIL SERVICE EXAMINATIONS.

May 27.	**Stationary Engineer**	**New York, N. Y.**	**May**	**2**
May 22.	Scientific Asst.	Washington, D. C.	May	9
May 22.	Statistician	Washington, D. C.	May	9
May 25.	Highway Inspector	Albany, N. Y.	May	9
	Advertised, Eng. News, May 9.			
May 25.	Arch. Draftsman	Albany, N. Y.	May	9
	Advertised, Eng. News, May 9.			
May 25.	Bridge Draftsman	Albany, N. Y.	May	9
	Advertised, Eng. News, May 9.			
May 25.	Chainman	Albany, N. Y.	May	9
	Advertised, Eng. News, May 9.			
May 25.	Engineering Examiner	Albany, N. Y.	May	9
	Advertised, Eng. News, May 9.			
May 29.	Electrician	New Rochelle, N. Y.	May	9
May 29.	Engr., Sawyer	Fort Defiance, Ariz.	May	9
May 29.	Inspector of Construction	Sheridan, Wyo.	May	16
May 29.	Laboratory Asst.	Washington, D. C.	May	16
June 4.	**Asst. Engr.**	**New York, N. Y.**	**May**	**9**
	Advertised, Eng. News, May 9.			
June 5.	Computer	Washington, D. C.	May	16
June 5.	Steam Fitter	Ft. Leavenworth, Kan.	May	16
		ington, D. C.	May	16
June 5.	**Aid and Laboratory Apprentice**	**Wash-**		

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTA, BIRMINGHAM & ATLANTIC.—We are officially advised that this company has had for the last several months three field parties making a very careful and exhaustive preliminary survey between Atlanta, Ga., and New Orleans, La. Nothing definite has been done relative to the construction, nor the letting of any contracts. The definite location is yet undecided, and preliminary investigation has not been finished, and will not be acted on for about 60 or 90 days. H. M. Atkinson, Electric and Gas Bldg., Atlanta, Ga., is Pres.; Alex. Bonnyman, Empire Bldg., Atlanta, is Ch. Engr.

ARKANSAS, LOUISIANA & GULF.—We are officially advised that preliminary survey has been run from Pine Bluff, Ark., to Monticello by H. Levison; from Monticello to Rolfe Junction by G. W. Ely, and from Crossett, Ark., via Rolfe Junction, Ark., and Bostrop, La., to Monroe, La., by J. L. Polk. Location surveys are now being made under direction of A. H. Van Auken, Lonewa, La. All matters relative to construction are in the hands of J. M. Parker, Gen. Mgr., Masonic Temple, Pine Bluff, Ark. Line is to be 133 miles long, from Pine Bluff to Monroe, La., and nine miles from Crossett to Rolfe Junction. Motive power will be steam. Much right-of-way has been secured. Only one grading contract has been let, that is to J. HARRIS, Monroe, La., who now has a force of men and teams at work. Progress is much delayed by bad weather. Noted on April 11.

BRAZOS VALLEY, BRENHAM & GULF.—Company has been incorporated to build a railroad from Brenham, Tex., north, up the valley of the Brazos River to Waco, Tex., a distance of 120 miles. The main office, shops, etc., are to be at Brenham. Capital stock, $1,000,000. Large donations and subscriptions have been made by citizens along the projected line to encourage the construction of this line, the town of Brenham alone giving $110,000. Preliminary surveys are being made and it is stated by the promoters that actual construction will begin at an early date. The directors of the company are John H. Baker, of Topeka, Kan.; F. W. McGuire, of Dallas, Tex., and D. C. Giddings, T. A. Low, F. W. Wood, R. E. Pennington and D. E. Teague, of Brenham, Tex.

CANADIAN PACIFIC.—Two tunnels will be bored by the C. P. R. near Field, B. C., to abolish grades, at a cost of $500,000, it is reported from Vancouver, B. C.

CHICAGO, MILWAUKEE & GARY.—See Illinois, Iowa & Minnesota.

CHICAGO & EASTERN ILLINOIS.—Henry I. Miller, Pres. of this company, Chicago, has confirmed the report that surveys are being made for a line to connect this road, by way of Evansville and Joppa, with the Mobile, Jackson & Kansas City, according to press reports. This would give a short route between Chicago and New Orleans and Chicago and Mobile.

DENVER & GULF.—Company has been incorporated, with $2,000,000 capital stock, to build a line 500 miles long from a point at or near Denver, Colo., to Snyder, Okla. Construction is under way in both directions from Texhoma. The incorporators are Frank Banks, of Sweetwater, Tex.; William E. Wilson, of Prentiss, Okla.; Robert E. Davis, of Granite, Okla.; William R. Evans, James Hicks and Calvin Glenn, of Texhoma, Okla.

EUREKA HILL.—The contract to grade the new line of railroad that is to run between the mines of Tintic, Utah, and the new smelter, to be erected by Jesse Knight and associates, west of Robinson, Utah, has been awarded to NEPHI STRAW, of Springville, Utah. The new road, it is understood, will be known as the Eureka Hill Railroad Co., and will be built by the combination that is interested in the smelter project. It is estimated that the line will be eight miles long and that it will require $10,000 a mile to complete it.

FERDINAND RAILWAY.—Hubert Quante, Secy., Ferdinand, Ind., advises us that this company has been organized to build a railroad from Ferdinand to a connection with the Southern Ry., a distance of 4½ miles. Surveys are being made. Contracts for building the road are to be let at once. M. Olinger, Jr., is Pres., and Frank Quante, Ch. Engr., both of Ferdinand, Ind. Right-of-way is not yet secured.

FLORIDA.—Bids are asked by First Lieut. Alfred M. Mason, Q. M., Fort Barrancas, Fla., until 11 a. m., May 17, for making repairs to standard-gage railway at this post.

IDAHO RAILWAY.—C. F. Hunt, Secy., Detroit, Mich., advises us that the line is projected from the Oregon Short Line at Boise, Idaho, and will run up the valleys of the Boise and Payette Rivers to the headwaters of the Salmon River. Contracts have been let for 60 miles of earthwork and for the ties, culverts and bridges. There will be two smelters built near Boise. A. M. Bannister, Pres., Detroit, Mich.; J. E. Bell, Treas., Addison, Mich., and T. F. Halveston, Vice-Pres., Boise, Idaho. Noted on April 25.

ILLINOIS & FOX RIVER.—Incorporated in Illinois. The principal office is Chicago. Capital stock is nominally $50,000. The road is to be constructed from Chicago through the counties of Cook, Will, Grundy and La Salle to Ottawa. The incorporators and first board of directors are: William H. McCutcheon, Max Luster, 466 North Ashland Ave.; Joseph F. Gearon, 79 Dearborn St.; Alberto N. Gulano and John F. Pope, all of Chicago.

ILLINOIS, INDIANA & GARY.—See Illinois, Iowa & Minnesota.

ILLINOIS, IOWA & MINNESOTA.—J. H. Seaman, Pres. of this company, announces that the proposed Rockford Belt, the Illinois, Indiana & Gary, and the Milwaukee & Rockford have been consolidated with this company. At the annual meeting, to be held on May 26, announcement is to be made of a change in the name of the consolidated system to the Chicago, Milwaukee & Gary R. R. Co. The total mileage embraced in the system will be about 300 miles. The I., I. & M. now operates 125 miles. An extension from Rockford, Ill., to Milwaukee and another to Gary, Ind., will soon be built.

KANSAS CITY, LAMAR & DENVER.—Incorporated in Kansas to build a steam or an electric railway from Concordia to Salina, passing through the counties of Cloud, Ottawa and Salina. The road is successor to the Kansas Central, previously incorporated. Capital stock, $100,000. Incorporators: T. E. Bacus, Kansas City, Mo.; E. R. Mackie, Concordia; John Reafsnyder, Delphos; J. C. Mason, Meredith; R. H. Burns, Lamar, and W. H. Burns, Lamar.

MILWAUKEE & ROCKFORD.—See Illinois, Iowa & Minnesota.

NORTHWESTERN PACIFIC.—Engineers have run survey for an extension from Eureka, Cal., to Marshfield, Ore. W. C. Edes is Ch. Engr., San Francisco, Cal.

OREGON R. R. & NAVIGATION.—The INLAND CONSTRUCTION CO., of Lewiston, Idaho, has contract for 5-mile section of the Lewiston-Huntington line.

PANHANDLE SHORT LINE.—Hans Helland, Ch. Engr., Hereford, Tex., advises us that this company is now locating its line from Hereford, Tex., to Stanton, Tex., a distance of about 220 miles. Bids for contracts of construction will shortly be asked for. T. H. Ransom is Pres. and Gen. Mgr., at Hereford.

PINE BLUFF, NORTH & SOUTH.—Company has awarded contract to the THOMAS A. BELL CONSTRUCTION CO., St. Louis, Mo., for building its line. Preliminary surveys have been made, one from Pine Bluff to Lonoke, Ark., 43 miles, and another from Pine Bluff to Devalls Bluff, 52 miles. The officers of the company are: Dr. Z. Orto, Pres.; P. P. Byrd, First Vice-Pres.; E. C. Howell, Second Vice-Pres.; William Nichol, Treas.; Dr. J. L. Caldwell, Secy. Headquarters are at Pine Bluff, Ark.

PLUM VALLEY.—H. A. Plath, Secy. and Treas., Plum City, Wis., states that this company, recently chartered, proposes to build a steam railroad from Plum City to Pepin, a distance of 22 miles, via Porcupine, Little Plum and Maybe. Surveys have been completed, but grading has not yet been commenced. P. M. Ingold is Pres., Plum City, Wis. Noted on April 25.

RICHMOND, FREDERICKSBURG & POTOMAC.—This company has sold $380,000 worth of 3½% 40-year gold bonds to the Richmond-Washington Co. to provide funds for the Richmond, Fredericksburg & Potomac portion of the cost of double-tracking the belt line around Richmond, Va., and to buy new rolling stock. The Richmond, Fredericksburg & Potomac will purchase 100 new steel coal cars and 200 new steel under-frame box cars. C. W. Haines is Ch. Engr., at Richmond.

RIVERSIDE & GULF.—A charter has been granted this company in Texas to construct a line of railroad from Wallisville, Tex., thence in a northerly direction through Chambers County, Liberty County and Polk County to a point on the Trinity River in Polk County, 50 miles distant. The new road is incorporated by E. H. Green, Jr., and W. H. Brown, of Beaumont; and A. W. Miller, C. S. Vidor, B. I. Sparks, T. E. Meese, C. H. Moore, Bartlett Moore, Kilburn Moore and M. R. Zincke, of Galveston. Capital stock, $50,000.

ROCKFORD BELT.—See Illinois, Iowa & Minnesota.

SUMPTER VALLEY.—Joseph A. West, Ch. Engr., Ogden, Utah, advises us that surveys are being made for an extension from Austin to John Day Valley, Ore., 40 miles. Right-of-way is secured for 20 miles and surveys are also made for this distance. Capital is ready. Contracts will not be let for building this line this year. Work will be heavy construction. David Eccles is Pres., Ogden, Utah.

ST. LOUIS & ILLINOIS BELT.—See West End Terminal.

ST. LOUIS & SAN FRANCISCO.—An extension will be built on the Arkansas & Choctaw division from Ardmore, Ind. T., to Lawton, Okla. Surveys are completed. J. W. Walton is Supt., Francis, Ind. T.

SOUTHERN KANSAS (Atchison, Topeka & Santa Fe).—The Texas Legislature has granted the Southern Kansas Railway Co. of Texas permission to take up the track on that portion of its line formerly known as the "Panhandle Railway" from a point 1.25 miles west of Panhandle, Tex., to Washburn, 14.3 miles, and to build a new line from the point 1.25 miles west of Panhandle to Amarillo, a distance of 25 miles. Excepting the preliminary survey, no work has been done on this line. J. E. Hurley, Topeka, Kan., is Pres. of the S. K. and Gen. Mgr. of the Sante Fe. Work probably will be started soon. No contracts have been let.

TWIN CITY & LAKE SUPERIOR RAILWAY.—Company has been organized under the laws of Maine, with a capitalization of $7,000,000, for the purpose of constructing a line between Minneapolis and St. Paul, Minn., and Duluth, Minn., a distance of about 129 miles. E. W. Farnham is Pres., Chicago; W. H. Crossland, Vice-Pres., Minneapolis, Minn.; F. B. Kidder, Treas., Minneapolis, and S. A. Carlisle, Secy., Wyoming, Minn.

ELECTRIC RAILWAYS.

SOUTHINGTON, CONN.—We are officially advised that the Litchfield & Torrington Tramway Co., which proposes to build between Torrington, Lake Bantam and Litchfield, a distance of eight miles, is securing capital and making surveys for its proposed railway. W. F. Dowd, of Litchfield, is Pres., and T. H. McKenzie, of Southington, is Secy. and Treas. Right-of-way is not obtained yet.

PITTSBURG, PA.—Manning Stires, Pres. of the Pittsburg & Westmoreland Ry. Co., 141 Broadway, New York, is reported to have announced that this company expects to place contracts soon for the construction of six miles of new single track, also for a steel bridge, to be about 300 ft. in length. In addition, the company is planning to erect a car house and repair shop and purchase four double-truck convertible cars complete. James Bryan is Ch. Engr., Park Bldg., Pittsburg.

GARRETFORD, PA.—The Garretford & Delaware County Railway Co. has been incorporated, capital stock $100,000. The line will be ten miles long, and extend from the Garrettford station of the Clifton branch of the Philadelphia & West Chester Electric Railway to the crossing of the Philadelphia, Wilmington & Baltimore Railroad on the public highway leading from Chester Heights to Llewellyn. The directors are: Geo. K. Powell, Wilkes-Barre, Pres.; John M. Garman, A. H. Bloom, B. C. Allen, E. J. Boyle, Thos. W. Haines and L. E. Waller.

COLUMBIA, S. C.—A. E. Legare, Ch. Engr., South Carolina Public Service Corporation, is reported as saying that survey has been completed from Charleston to Columbia, Abbeville, Greenwood, Anderson and Greenville, S. C. Survey is in progress between Columbia and Charlotte and Greenville and Spartanburg.

BENNETTSVILLE, S. C.—Application for a street railway franchise has been made to the Town Council by J. J. Matheson, Warren Moore and Vann Livington.

TAMPA, FLA.—Bids for the second section of the Peninsular Railway, from Mulberry to Plant City, Fla., will be asked at once, it is reported. The line will be about 50 miles long from Bartow, via Mulberry, Plant City and Thonotosassa, to Tampa. The William H. Evers Engineering Co., 237 Arcade Bldg., Cleveland, Ohio, is the Engr. The officers are E. C. Stuart, Pres.; W. B. Swearingen and L. N. Pipkin, Vice-Presidents; Solon G. Wilson, Secy.; G. V. Tillman, Treas. Noted on April 11.

NEW IBERIA, LA.—The Bayou Teche Railway & Light Co. has a corps of engineers in the field surveying between New Iberia and Jeanerette for the interurban line. C. W. Reynolds is Ch. Engr. All the right-of-way has been secured in the city and country. H. R. Fine is Vice-Pres.

JEFFERSON CITY, TENN.—The Jefferson City Electric Railway, Light & Power Co., capital $15,000, has been incorporated and chartered by W. T. Russell, J. B. Huff, A. A. Galbraith, J. T. Watkins and Frank Galbraith.

YOUNGSTOWN, OHIO.—J. H. Ruhlman, Youngstown, Pres. of the Lake Erie & Youngstown Ry. Co., writes us that surveys are made for the projected line from Youngstown to Andover to Conneaut, on Lake Erie, 66 miles. Financial arrangements are being made. Right-of-way is secured. Contracts may be let in July for construction work. George Tod, Jr., is Ch. Engr., Youngstown. Noted last week.

DETROIT, MICH.—E. W. Mills and others, of Detroit, are promoting the Michigan Thumb Electric Ry. Company plans to begin construction work this summer. It is proposed to build the road from Detroit to Bay City, touching at Memphis, Richmond, Emmett, Sanilac Centre.

CAIRO, ILL.—We are officially advised that the ELECTRICAL INSTALLATION CO., Monadnock Bldg., Chicago, has been awarded contract for the complete construction of the extension to the Cairo Electric & Traction Co.'s lines in Cairo. The work is to be completed about Sept. 1.

CHICAGO, ILL.—Contract for electric railway equipment has been awarded by the Chicago, Lake Shore & South Bend Ry. Co. to WESTINGHOUSE ELECTRIC & MANUFACTURING CO., of Pittsburg. The Chicago, Lake Shore & South Bend Ry. Co. was organized some time ago by a number of Cleveland capitalists, including E. G. Tillotson and Myron H. Wilson, Vice-Presidents of the Cleveland Trust Co.; J. R. Nutt, of the Citizens Savings Bank; H. P. McIntosh, Pres. of the Guardian Savings & Trust Co., and George N. Chandler.

PEORIA, ILL.—The Peoria, Lincoln & Springfield Electric Ry. Co. has been incorporated to build an electric railway from Lincoln to Mackinaw. The C. G. HELM CONTRACTING CO., of Pekin, Ill., has the construction contract.

WAGNER, S. DAK.—John Absher, Pres. of the Wagner, Lake Shore & Armour Traction Co., states that the grading of the road will commence soon. The road will be 65 miles long, and will connect Wagner, Armour and Mitchell. A summer resort is to be established at Lake Andes. The amusement park at this place is one of about 106 acres, and is owned by the company. Company is incorporated with $1,000,000 capital stock. The incorporators include: A. H. Pease, J. Absher and J. Steransky, of Wagner; A. Ammidson, of Lake Andes, and E. P. Wanzer, of Armour.

JONESBORO, ARK.—A. M. Claunch, 329 Main St., Jonesboro, is interested in the promotion of an electric street railway.

PORT ANGELES, WASH.—H. B. Kennedy and Fred A. Ballin, of Seattle, and others have made application to the City Council for a franchise for a system of street railways in Port Angeles.

SEATTLE, WASH.—Franchises for electric lines to Rainer Beach and Oxbow have been granted to the Seattle Electric Co. by the County Commissioners. It is the intention of the company to extend the Rainier Heights line through Rainier Valley to the beach. Oxbow will be reached through Georgetown.

EUGENE, ORE.—Simon Klovdahl, Engr., has completed the surveys for the Willamette Valley Co.'s proposed line up the McKenzie Valley. Henry Stewart, of Springfield, Ore., has been engaged to secure the right-of-way.

BAKER CITY, ORE.—A [illegible] franchise has been granted by the [illegible] Council to William Pollman and associates [illegible] of this city, to construct and operate a [illegible] electric street railway, also to run an urban line to Rock Creek and Haines.

GALT, ONT.—Improvements [illegible] about $100,000 are contemplated by [illegible] Galt, Preston & Hespeler St. Ry. Co. [illegible] The road is to be double-tracked, new barns built and a 750-HP. engine will be installed in the power-house. John Johnson, Ch. Engr., Preston, Ont. The company owns 21 miles of line.

NEW WESTMINSTER, B. C.—We are officially advised that the Vancouver Power Co., Ltd., will not let contracts [illegible] May, 1908, for building an electric railway from New Westminster to Chilliwack, 70 miles. Surveys have been made and [illegible] for construction secured. Right-of-way is partly obtained. R. H. Sperling is Mgr. and J. Milne is Gen. Supt., Vancouver, B. C.

LIGHT AND POWER PLANTS.

BINGHAM, ME.—The Bingham Electrical Co. has been incorporated for the purpose of making, generating, selling, distributing and supplying electricity for lighting, heating, power, manufacturing and mechanical purposes in the towns of Bingham, Moscow and Concord and Pleasant Ridge Plantation. Capital, $25,000. Albert F. Webster is Pres.; Roy M. Savage, Treas., both of Bingham.

GREENFIELD, MASS.—It is proposed to construct a new holder, water gas set, purifiers, coal shed and trestle and 15 miles of mains for the Greenfield Gas Light Co. George H. Priest is Supt.; G. W. Rossiter, of Keene, N. H., is Engr.

FORT STRONG, (Boston post-office), MASS.—Bids are asked until 10:30 a. m., June 1, by Capt. George L. Goodale, Constr. Q. M., 263 Summer St., Boston, for constructing a street lighting system and installing electric light fixtures in non-commissioned officers' quarters at this post.

SCOTLAND, CONN.—The Uncas Power Co., of Norwich, has this week awarded to FREDERICK C. SHAW, of Providence, R. I., the contract for constructing the electric power plant which it is to erect on the Shetucket River at Scotland Station. The contract calls for the completion of the plant by Oct. 15.

FORT. ADAMS (Newport post-office), R. I.—Bids are asked until 10 a. m., June 10, by Capt. Willis C. Metcalf, Constr. Q. M., for constructing steel smokestack for the power plant at this post.

WEST ALBANY, N. Y.—The New York Central & Hudson River R. R. Co. will enlarge its power plant at West Albany. About $150,000 will be expended. C. H. Quereau, New York, is Supt. Electrical Equipment.

CONKLINGVILLE, N. Y.—The Hudson River Electric Power Co., of Albany, N. Y., has made application to the State Commission of Gas and Electricity for consent to issue consolidated and refunding mortgage gold bonds to the amount of $3,232,000. It is stated that the purpose of the proposed issue is to provide for purchase of the flowage rights of a large reservoir on the Sacandaga River in the counties of Saratoga and Fulton, the construction of a dam and power house at Conklingville, with the necessary transmission lines and sub-stations and other purposes. Eugene L. Ashley is Pres.; Charles E. Parsons is Ch. Engr. of the company.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 28, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, installing, maintaining and reserving for the use of the high pressure fire service, all apparatus and equipment necessary for generating and transmitting 3,250-KW. of 3-phase, 6,600 volts, 25-cycle electric power, and furnishing and delivering this power, under the terms of this contract to Dec. 31, 1907, at each of the high pressure fire service pumping stations, located in the Borough of Manhattan, at Oliver and South Sts. and at Gansevoort and West Sts., respectively. Also for furnishing, installing, maintaining and reserving for the use of the high pressure fire service all apparatus and equipment necessary for generating and transmitting 1,830 KW. of 3-phase, 6,600 volts, 25-cycle electric power, and furnishing and delivering this power under the terms of this contract to Dec. 31, 1907, at each of the high pressure fire service pumping stations, located in the Borough of Brooklyn, at Furman and Joralemon Sts. and at Willoughby and St. Edwards Sts., respectively.

NEWARK, N. J.—The Common Council on May 3 passed the ordinance granting the Newark Block Lighting Co. permission to lay conduits in Lawrence and Market Sts. between Ward and Broad Sts. James M. Seymour, Jr., is Pres.

PHILADELPHIA, PA.—Bids are asked until 1 p. m., June 14, by Col. Frank Heath, Frankford Arsenal, Philadelphia, for furnishing one 350-KW. engine or turbine, generator, boiler and condensing apparatus. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until May 21, 28 and June 11, to furnish at the various navy yards, naval supplies as follows: Schedule 706, magnet machine motors, motor-drive outfits, etc. Schedule 711, hydraulic jacks, etc. Schedule 759, electric fixtures, wire, etc. Schedule 767, water-tube boilers, etc. Schedule 782, induction motor, electric batteries, sheet copper, etc. Application for proposals should designate the schedules desired by number. E. B. Rogers is Paymaster Gen., U. S. N.

ROWLESBURG, W. VA.—Bids are asked until June 1 for one 150-HP. engine, a 200-HP. boiler, a 100-KW. transformer with switchboard, etc., for a complete municipal electric light plant. H. R. Hollis is Town Recdr.

SPARTANBURG, S. C.—Bids are asked until about May 20 for development of the Van Patton Shoals on Enoree River for power purposes. Ladshaw & Ladshaw, of Spartanburg, are Engrs. A. B. Grace & Sons, of Duncans, S. C., are interested.

DORA, ALA.—Bids are asked by the Committee on Electric Lighting, until noon, June 6, for complete installation and erection, or material and machinery only, for a municipal electric lighting plant. Thornton Co., 202 Chalifoux Bldg., Birmingham, Ala., is Engr. (Advertised, Engineering News.)

LEXINGTON, KY.—The Central Kentucky Natural Gas Co. will erect a pump-house in the gas fields to force gas from the fields to the consumers. The pump-house and machinery will cost between $60,000 and $70,000. John Tonkins is Gen. Mgr.

COLUMBUS, OHIO.—The Board of Service has rejected all bids for additional machinery at the city lighting plant, and will advertise for new bids. William Wilcox, Columbus, is Supt.

DUNCAN FALLS, OHIO.—According to press reports, a light and power plant, to cost $50,000, will be erected here. J. W. Wineforder is interested.

HOLLAND, MICH.—The Board of Public Works will expend $30,000, it is reported, enlarging the municipal electric light plant. A. E. McClellan is Ch. Engr.

OTTAWA, ILL.—The Ottawa Gas Light & Coke Co. will remodel its plant. The entire structure will be remodeled and modern machinery and equipments will be placed in position; the old building will be torn down, and will be supplanted with a modern structure.

FERGUS FALLS, MINN.—Bids are asked until 8 p. m., May 28, by the City Council, for constructing a cement concrete dam and brick power-house at Fergus Falls. G. H. Gard is City Clerk. (Advertised, Engineering News.)

INDEPENDENCE, KAN.—We are officially advised that contract for nine steel mill buildings and two steel tanks and towers for the Kaw Gas Co. has been awarded to the SOUTHWESTERN BRIDGE CO., of Joplin, Mo.

SALTESE, MONT.—Arrangements are being made by Benjamin F. Blakeley to install a plant to furnish water and electric lights.

OKLAHOMA CITY, OKLA.—The Oklahoma Gas & Electric Co. is planning extensions to its system of electric lighting that will embrace all of the northern portion of the city, from 18th St. to Putnam Park. F. H. Tidman, Oklahoma City, is Mgr.

SILVER CITY, N. MEX.—The New Mexico Light, Heat & Power Co. is contemplating enlarging its plant in this city. George T. Schmelzel, Silver City, is Mgr.

SNOQUALMIE, WASH.—The Seattle-Tacoma Power Co. will enlarge the capacity of its plant at Snoqualmie Falls this season. The output will be increased from 4,000 to 10,000 HP. O. D. Colvin, Seattle, is Mgr.

OLYMPIA, WASH.—The City Council has granted to W. S. Dole, of Portland, Ore., a franchise to erect a gas plant here.

PHOENIX, ARIZ.—The Secretary of the Interior has awarded contract amounting to $23,021 to the UNITED STATES WIND ENGINE & PUMP CO., of Batavia, Ill., for furnishing the necessary supports for the transmission line which will extend from the power house at Roosevelt, Ariz., to Mesa and Phoenix, except Items 13, 14 and 14A, for supports on the cultivated area through which the line will pass. The transmission line is approximately 65 miles in length. At the request of the engineers, one of the bidders, B. F. Kieruff, Jr., & Co., of Los Angeles, Cal., submitted an informal proposal for furnishing patented tripartite steel poles, made by the Franklin Rolling Mill & Foundry Co., of Franklin, Pa. These poles can be used to advantage in the cultivated area, but the exact number cannot be ascertained at the present time. The Secretary of the Interior has therefore awarded the latter company contract for furnishing not more than 600 of these poles.

MOUNTAIN HOME, IDAHO.—The Mountain Home Electric Co. has awarded contract to the SPANGENBERG ELECTRIC & MACHINE CO. for 75 KW. three phase 60-cycle 220 volts rotating field generator and a modern marble switchboard. F. J. Moore, Mountain Home, is Supt.

FARNHAM, QUE.—Bids are asked until May 27 by A. E. Artois, Mayor, for constructing an electric light plant in the town of Farnham.

QUEBEC, QUE.—The new power house for the Quebec Railway, Light & Power Co. at Quebec will be a one-story structure with basement. The plans for the same were prepared by Stavely & Stavely, 92 St. Peters St., Quebec, and the structure is to be entirely void of wood, the window casings, etc., being of steel. The DOMINION BRIDGE CO., Liverpool, London & Globe Bldg., Montreal, has contract for the steel work and FRANCOIS PARENT has the contract for the stone and concrete construction.

TORONTO, ONT.—The ONTARIO POWER CO. has practically completed an arrangement with the Hydro-Electric Power Commission of the Province of Ontario whereby from 30,000 to 100,000 HP. is to be delivered to cities and towns throughout the province from Toronto to Windsor. The contract will have a duration of ten years, with option of renewal for 40 years, or as long as the existing contracts between the Ontario Power Co. and the Queen Victoria Niagara Falls Park Commission remain in force. The price for the power up to 5,000 HP. is to be $10.40 per HP. a year for 24-hour power every day in the year. When the amount of power taken exceeds 25,000, the price per horse-power for the whole block is to be $10. As over 40,000 HP. has already been applied for by the western municipalities concerned, it is probable that the price will be figured at $10 from the start. Gen. Francis V. Green, Fidelity Bldg., Buffalo, is Vice-Pres., Ontario Power Co.; Hon. Adam Beck is Chn., and P. W. Lathmann is Ch. Engr. of the Hydro-Electric Comn., Toronto.

MORDEN, MAN.—Cecil Goddard, C. E., Winnipeg, Man., has been engaged by the Town Council to supervise construction of an electric lighting plant.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—Bids are asked by C. W. Kelly, City Engr., until 2 p. m., May 27, for constructing reinforced concrete girder bridge at Humphrey St. over Mill River. The approximate quantity of work is as follows: Concrete, 1,638 cu. yds.; concrete fence, 328 lin. ft.; steel reinforcement, 73,000 lbs., and 654 piles. (Advertised, Engineering News.)

NEW YORK, N. Y.—James W. Stevenson, Comr. of Bridges, has awarded contract for constructing temporary extension of Manhattan terminal of Brooklyn Bridge to J. H. GRAY & CO., 949 Broadway, New York, at $85,000.

NEW YORK, N. Y.—The following bids were received May 13 by James W. Stevenson, Comr. of Bridges, for constructing steel and masonry approach in Boro. of Manhattan of Blackwell's Island Bridge over East River, between Boros. of Manhattan and Queens: John Pierce Co., 277 Broadway, $1,749,000; Frank Bradley, 154 East 24th St., $1,830,425; Williams Engineering Co., 13-21 Park Row, $1,590,000; Snare & Triest, 147 Liberty St., $1,576,760, and J. H. Gray & Co., Broadway and 23d St., $1,762,000, all of New York.

BUFFALO, N. Y.—Bids were received May 2 by the Department of Public Works, Charles M. Morse, Deputy Engr., Comr., for constructing plate girder bridge, 35 ft. wide, with 74-ft. span, on pile and masonry foundations, across Slip No. 1, at River St. Fred. J. Mumm, at $6,148, was lowest bidder for constructing substructure. The lowest bid for constructing superstructure was submitted by the King Bridge Co., Cleveland, Ohio, at $5,365.

JERSEY CITY, N. J.—Bids are asked by the Board of County Freeholders, Walter O'Mara, Clk., until 4 p. m., May 23, for constructing viaduct in three sections to connect 14th St., Hoboken, and roads connecting.

BOONTON, N. J.—Two bridges will probably be constructed between the town of Boonton and the park section.

READING, PA.—Bids are asked by H. F. Livingood, County Controller, until 10 a. m., May 24, for erecting reinforced concrete arch bridge, with 50-ft. clear span and wing walls, in Douglass Township, across Iron Stone Creek, and known as the Iron Stone Bridge. Bids are asked at the same time for erecting reinforced concrete arch bridge, with 36-ft. clear span and wing walls, in Windsor Township, across Stoyers Creek. (Advertised, Engineering News.)

PITTSBURG, PA.—Bids are asked by the Board of Public Works until May 27 for construction of reinforced concrete arch bridge on Centre Ave., crossing the P. R. R. tracks. Estimated cost, $50,000. N. S. Sprague is Supt. Bureau of Constr., Dept. Pub. Wks.

POINT MARION, PA.—Bids are asked until May 18 by the Board of County Commissioners, M. E. Townsend, Chn., at Uniontown, for constructing 3-span steel bridge at Point Marion over Cheat River.

CRESSONA, PA.—Bids are asked until May 21 by Chas. T. Straughn, Compt., Pottsville, for constructing a steel bridge over west branch of Schuylkill River, at Cressona.

HOLLADAY, VA.—Bids are asked by the Bridge Commissioners of Spottsylvania and Loudoun Counties until May 24 for constructing steel bridge.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, June 1, for removing Woodley Lane bridge across Rock Creek. (Advertised, Engineering News.)

Bids received April 20 by the District Commissioners for construction of bridge on Monroe St., extended in Anacostia, D. C., have been rejected. New plans and specifications have been prepared.

FT. DADE (Egmont post-office), FLA.—Bids are asked until 8 p. m., June 15, by Lieut. M. H. Barry, Constr. Q.-M., for constructing 150-000-gallon steel tank and trestle, and for installing ice and refrigerating plant at Ft. Dade. (Advertised, Engineering News.)

BIRMINGHAM, ALA.—The Atlanta, Birmingham & Atlantic R. R. Co., which is extending its line from Birmingham to Brunswick, Ga., and which contemplates building to Anniston, has awarded contract to the AMERICAN BRIDGE CO., 42 Broadway, New York, for constructing 70 steel bridges. Alexander Bonnyman, at Atlanta, Ga., is Ch. Engr.

COLFAX, LA.—Bids are asked by the Police Jury of Grant Parish, at Colfax, until June 3, for building steel bridge over Bayou Nantachie, on Montgomery and Winnfield Road. J. B. Roberts is Secy., at Colfax, La.

CINCINNATI, OHIO.—The Board of Public Service, Charles N. Dannenhower, Ch. Engr., has let contract for superstructure of viaduct over right-of-way from Barnard St. and Harrison Ave. to State Ave. to GRANGER & CO., Louisville, Ky., at $252,800. The following bids were also received: Interstate Engineering Co., Bedford, Ohio, $321,893; Strobel Concrete Co., $324,600; Winkoop & McGormley, $342,600; Wm. Marshall Construction Co., $279,000; Capitol Construction Co., $279,900; Cowing Engineering Co., $280,500; King Bridge Co., Cleveland, Ohio, $299,800, and Union Iron Works, $305,000.

DAYTON, OHIO.—The County Commissioners have let contracts for bridge work as follows: CENTRAL STATES BRIDGE CO., superstructure for Twin Creek Bridge, at $8,958. J. H. MORRISON, sub-structure for Twin Creek bridge, $6.73 per cu. yd.

HAMILTON, OHIO.—The County Commissioners have received plans for constructing bridge across canal and Cincinnati, Hamilton & Dayton R. R. at Woodsdale from D. A. Dillon, Engr. The bridge, with wood flooring, will cost $15,000, and, with permanent flooring, $18,000. Bids will soon be asked.

WAPAKONETA, OHIO.—Bids are asked by W. H. Meyer, County Audr., until 11 a. m., June 3, for furnishing material and constructing substructures and superstructures for two bridges over St. Marys River, one in Salem and other in Noble Township.

CLEVELAND, OHIO.—Bids are asked until May 25 by the Board of County Commissioners, Julius C. Dorn, Clk., for constructing four concrete steel bridges, as follows: One in Rocky River Village; one in Parma Township; one in Orange Township, and one in Cleveland Heights Village, as per reports 1544, 1545, 1546 and 1548 respectively. A. B. Lea is Co. Engr.

LANCASTER, OHIO.—Bids are asked by the County Commissioners until May 18 for constructing South Columbus St. bridge across Rocking River. Fred. L. Mauger is County Audr.

COLUMBUS, IND.—Bids are being received by the County Commissioners for constructing Davis, Ford and White Creek bridges.

RUSHVILLE, IND.—The Board of County Commissioners have awarded contract for construction of Harlan bridge to the GREENFIELD BRIDGE & SEWER CO., for $27,900.

URBANA, ILL.—Bids are asked by the County Commissioners until 1 p. m., May 22, for constructing 30-ft. reinforced concrete girder bridge.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until 10.30 a. m., May 24, for constructing steel viaduct about 1,160 ft. long and 60 ft. wide. Charles J. Poetsch is City Engr. and Pres. Bd. Pub. Wks. (Advertised, Engineering News.)

MILWAUKEE, WIS.—The following bids have been received for constructing viaduct across Menomonee Valley at west end of Grand ave.: James O. Heyworth, Railway Exchange Bldg., Chicago, Ill., $382,900, $377,300; Westwater & Casey, Columbus, Ohio, $399,475, $394,450; R. S. Blome, Chicago, $430,000, $424,700; Newton Engineering Co., Milwaukee, $372,000, $367,200; Bates & Rogers Construction Co., 355 Dearborn St., Chicago, $499,000, $493,000; Sterling Engineering & Construction Co., $373,700, $372,956; Danielson, Milwaukee, $457,638, $443,000; Hayes Bros., Janesville, $507,900, $503,000; Roberts & Jones, Milwaukee, $447,000; Ford & Forrest, Cedar Rapids, Iowa, $438,000, $430,000; Cullen-Fredet, Chicago, $518,900, $511,690. The higher bid submitted by each company is calculated to provide for additional work on extended abutments, should the county decide to run the viaduct out farther at each end than is contemplated at present. Charles G. Poetsch is City Engr.

KINSLEY, KAN.—The WICHITA CONSTRUCTION CO., Wichita, Kan., has secured contract for constructing 660 ft. steel bridge across Arkansas River at this city for $20,000.

DILLON, MONT.—Bids are asked by John S. Baker, County Clk., until June 3, for constructing bridges across Wise & Beaver Head Rivers.

GLENDIVE, MONT.—A. Y. BAYNE & CO., 202 Commercial Bldg., Minneapolis, Minn., have been awarded contract for constructing 36 steel bridges in connection with the Lower Yellowstone Project, Mont.-N. Dak., at about $38,000.

KANSAS CITY, MO.—The UNION BRIDGE & CONSTRUCTION CO., 606 New Nelson Bldg., Kansas City, Mo., has secured contract for constructing substructures for bridges over Bayou Du Canne and Bayou Nez Pique, in Louisiana, for the C. S. N. O. & P. R. R. Co.

MILWAUKEE, ORE.—The Oregon Water Power Co. is preparing to construct bridge across Johnson Creek. G. C. Fields, Portland, is Supt.

RENO, NEV.—Bonds amounting to $24,000 have been authorized for constructing bridge at Scott St.

OGDEN, UTAH.—The County Board has prepared to construct concrete bridge over Ogden River.

GENESEE, IDAHO.—The Commissioners have authorized construction of three bridges across Crow Creek south of Genesee.

GRANGEVILLE, IDAHO.—A petition has been filed with the County Commissioners for construction of bridge across Cottonwood Creek.

FREDERICTON, N. B.—Bids are asked by the Department of Public Works, C. H. L. Labillois, Comr., until July 8, for constructing two superstructure spans, each 252 ft. 8 ins. long, across St. John River.

DAUPHIN, ONT.—Contracts for constructing three steel bridges, one over Vermilion River and two over Wilson River, have been awarded to the ALGOMA STEEL BRIDGE CO., of Sault Ste. Marie.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by James Knox Taylor, Superv. Arch., Washington, D. C., until 3 p. m., June 10, for seven new high-pressure steam boilers and accessories for the United States post-office and subtreasury building, Boston.

NEW YORK, N. Y.—The following bids were received May 8 by John F. Ahearn for the labor and materials required, with the exception of plumbing and gasfitting, for the erection and completion of a public bath building to be built at 83 and 85 Carmine St., Boro. of Manhattan, (a) for building, (b) excavation: Patrick Gallagher, 1183 Broadway, (a) $135,110, (b) $2.50; Luke A. Burke Sons & Co., 25 West 42d St., (a) $134,000, (b) $1; Charles H. Peckworth, 415 Hudson St., (a) $121,864, (b) $2.25; Edmond D. Broderick, 1382 Lexington Ave., (a) $144,900, (b) $3; Daniel J. Ryan, 723 Third Ave., Brooklyn, (a) $141,900, (b) $3; Guidone & Gilardi, 1 Madison Ave., (a) $136,100, (b) 10 cts.; H. M. Weed, 124 West 45th St., (a) $123,295, (b) $2.25; John H. Parker Co., 225 Fourth Ave., (a) $136,870, (b) $3; Thomas Cockerill & Son, 147 Columbus Ave., (a) $129,900, (b) $3; F. T. Nesbit & Co., Inc., 116 Nassau St., (a) $123,950, (b) $2; J. & L. Moreland Co., 1910 Park Ave., (a) $145,720, (b) $2.60; George Hildebrand, 38 Park Row, (a) $141,000, (b) $3.

The following bids were received at same time and place for plumbing and gasfitting to be installed in the public bath building to be built at 83 and 85 Carmine St., Boro. of Manhattan, (a) for building, (b) excavation, (c) total: Kenney Renner Co., 135 West 24th St., (a) $10,625, (b) 50 cts., (c) $10,875; O'Brien & Ryder Co., 147 Spring St., (a) $11,900, (b) $4.50, (c) $14,150; Christopher Nally, 2382 Broadway, (a) $11,488, (b) 1 ct., (c) $11,493; P. F. Kenney Co., 2291 Broadway, (a) $11,300, (b) 5 cts., (c) $13,800; Byrne & Murphy, 890 Park Ave., (a) $8,965, (b) 5 cts., (c) $11,465.

NEW YORK, N. Y.—The following bids were received May 8 by John F. Ahearn, Pres. Boro. of Manhattan, for all the labor and materials required for the excavation, mason, carpenter, structural steel, ornamental iron, painting, hardware and other work for a public bath building to be erected on the corner of Cherry and Oliver Sts., in the Boro. of Manhattan, (a) excavation, (b) building: Thomas Cockerill & Son, 147 Columbus Ave., (a) $3, (b) $164,500; George Hildebrand, 38 Park Row, (a) $3, (b) $135,480; John H. Parker Co., 225 Fourth Ave., (a) $2.75, (b) $137,695; Kelley & Kelly, Inc., 45 East 42d St., (b) $141,900; Guidone & Gilarde, 1 Madison Ave., (a) 10 cts., (b) $132,200.

Following are the bids received at the same time and place for labor and materials required for the plumbing and water supply, electric pumps and hot water heaters, etc., for the public bath building to be erected on the corner of Oliver and Cherry Sts., Boro. of Manhattan, (a) building, (b) excavation, (c) total: Kenney Renner Co., 135 West 24th st., (a) $28,613, (b) $1, (c) $28,813; George E. Gibson, 511 Park Ave., (a) $26,936, (b) $4.75, (c) $27,886; M. J. O'Brien, 2142 Broadway, (a) $24,900, (b) $5.25, (c) $25,950; P. F. Kenney Co., 2291 Broadway, (a) $24,000, (b) $7, (c) $25,400; Christopher Nally, 2382 Broadway, (a) $23,987, (b) 1 ct., (c) $23,989.

NEW YORK, N. Y.—The following bids were received May 13 by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of additions to and alterations in Public School No. 64, on Belmont Ave., Berriman and Atkins Sts., Boro. of Brooklyn: Patrick Gallagher, 1183 Broadway, $446,000; Peter J. Ryan, 314 West 44th St., $397,212; George Hildebrand, 38 Park Row, $405,880; Thomas McKeown, 521 West 110th St., $407,739; R. E. Henningham, 1 Madison Ave., $407,357.

Following are the bids received by C. B. J. Snyder, Supt. School Bldgs., on May 13, for general construction, etc., of new Public School No. 90, on Washington and Lincoln Aves., 208 ft. north of Jamaica Ave., Richmond Hill, Boro. of Queens: George Hildebrand, 38 Park Row, $349,244; Thomas McKeown, 521 West 110th St., $332,400; Thomas Cockerill & Son, 147 Columbus Ave., $341,886; Robert Bull & Co., $431,500; R. E. Henningham, 1 Madison Ave., $352,644; William Werner, 892 Forest Ave., $354,800; Patrick Gallagher, 1183 Broadway, $360,000; Charles H. Peckworth, 415 Hudson St., $344,445; Peter Cleary, 235 Bainbridge St., Brooklyn, $342,300; P. Sullivan, 230 Grand St., $346,000; Arci Construction Co., 99 Broadway, Brooklyn, $344,000.

NEW YORK, N. Y.—Plans have been filed with the Bureau of Buildings for a new 20-story structure to be erected for the Goldsmiths & Silversmiths Co. as lessee, at Nos. 15 to 19 Maiden Lane, with two wings extending through the block to John St. It is to front 72.5 ft. on Maiden Lane, and will have a depth of 82 ft., the facade being of terra cotta trimmed brick, with ornamental cornices at the sixth, seventeenth and twentieth stories, and tall Corinthian pilasters supporting the roof cornice. The wings are to front at Nos. 18 and 20 John St. The building is to be equipped with six elevators. It is to be erected for Edward Holbrook, as owner, and is to cost $750,000.

C. B. J. Snyder, Supt. School Bldgs., has filed plans with Buildings Superintendent for a new 4-story school building, to be known as Public School No. 114, to be erected in Oak St., between James and Oliver Sts., in the old Five Points District. It will be of brick, with trimmings of limestone, having a frontage of 201 ft. and a depth of 199 ft., and is to cost $450,000.

Francis T. Lantry, Fire Comr., has filed plans with the Buildings Superintendent for the enlargement of Fire Headquarters in East 67th St. by the addition of a 6-story fireproof annex, facing on 68th St. and extending the present building through the block. The addition will have a frontage of 36½-ft. and a depth of 100.3 ft., with a facade of brick and decorated limestone and terra cotta. Four stories will be fitted as offices and the sixth floor utilized to extend the department electric alarm signal plant. The annex is to cost about $150,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 27, by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of Public School No. 14, at 225 East 27th St., Boro. of Manhattan; alterations, repairs, etc., to Public Schools Nos. 28, 32, 33, 55, 58, 67, 87, 127, 141, High School of Commerce and De Witt Clinton High School, Boro. of Manhattan; alterations, repairs, etc., for Public Schools Nos. 1, 2, 3, 3 Annex, 4, 7, 12, 14, 15, 41, 44, 69, 97, 98, 101, 102, 111, 118, 119, 128, Girls' High School, Boro. of Brooklyn; general construction, etc., of additions to and alterations in Public School No. 64, on Belmont Ave., Berriman and Atkins Sts., Boro. of Brooklyn; installing heating and ventilating apparatus in Public

School No. 150, on Christopher Ave. and Sackman St., about 100 ft. south of Belmont Ave., Boro. of Brooklyn; general construction, etc., of Public School No. 158, on Ashford St., Belmont Ave. and Warwick St., Boro. of Brooklyn.

NIAGARA FALLS, N. Y.—JOHN LENNON, SON & CO., 1328 South Ave., have been awarded contract for construction of the Holy Angels Academy, at $150,000.

BAYONNE, N. J.—Bids are asked until 8.30 p. m., June 20, by the Board of Education, at School No. 8, Ave. C and 27th St., for constructing Public School No. 9, between East 25th and East 26th Sts., Bayonne. (Advertised, Engineering News.)

NEWARK, N. J.—The School House Committee of the Board of Education has adopted the plans of Nathan Myers, 238 Washington St., for the Manual Training High School, and the plans of Runyon & Carey, 122 Market St., for heating same. The plans provide for a 4-story terra cotta and rough brick building, to cost about $400,000.

CHESTER, PA.—Charles L. Hofmann has completed plans for a 4-story theater and apartment building, to be erected at Chester for F. F. Faber and P. J. Nolan. The building will measure about 100 × 182 ft., and will be constructed of brick and Indiana limestone. The theater will measure about 60.6 × 135 ft. Four stores, 32 flats and 13 apartments will take up the remainder of the building. The cost will be about $120,000.

PHILADELPHIA, PA.—JOHN W. EMERY, 1524 Sansom St., has contract to construct a store and office building at 1214 Arch St. for A. H. Mershon & Co., Land Title Bldg. The building will be eight stories high, 30 × 170 ft., and will cost about $122,000.

WASHINGTON, D. C.—The District Commissioners have invited estimates for 4-story brick and stone addition to the McKinley Manual Training School. Cost, $130,000.

Bids were opened May 7, at the office of the new National Museum Building, Washington, D. C., for interior marble work for that building: Evans Marble Co., York and William Sts., Baltimore, Md., (1) $179,900, (2) $150,470, (4) $188,800, (5) $165,680, (6) $221,918, (7) $207,298, (8) $164,000, (9) $165,680, (10) $208,706; Hill Gartner Marble Co., Baltimore Md., (1) $180,880, (2) $151,495, (4) $183,180, (5) $168,560, (6) $226,000, (7) $210,000, (8) $166,260, (9) $168,560, (10) $207,000; Davis Marble Co., 214 South 24th St., Philadelphia, (1) $194,300, (2) $160,800, (4) $158,287, (6) $260,900, (5) $213,000, (7) $248,100, (8) $181,500, (9) $213,000, (10) $230,500, and alternate proposition, (11) $242,300, (12) $198,600, (13) $166,800, (14) $208,900, (15) $220,200, (16) $183,000, (17) $241,800, (18) $220,200, (19) $143,400; Wm. Bradley & Son, Vernon Ave., Long Island City, N. Y., (1) $160,359, (2) $148,280, (3) $224,491, (5) $155,455, (6) $201,187, (7) $198,355, (8) $157,527, (9) $155,455, (10) $185,155, (11) $102,465, (12) $133,712; Vermont Marble Co., Proctor, Vt., (11) $192,000, (12) $196,000, (13) $184,000, (15) $164,000, (14) $186,000, (16) $156,000, (17) $155,000, (18) $147,000, (19) $139,300.

JACKSONVILLE, FLA.—The Atlantic & East Coast Terminal Co. will erect two warehouses, each 645 × 191 ft., and equipped with fire walls and automatic fire doors. One building will have a second story 129 ft. 6 ins. long by 38 ft. wide, and the other a second story 309 ft. 6 ins. long by 48 ft. wide. Between the two structures a 49-ft. driveway will be laid for trackage.

MERIDIAN, MISS.—C. M. RUBUSH, of Meridian, has contract to build a freight house here for the New Orleans & Northeastern R. R. Co., at about $200,000. Work will be started at once, to be completed about Nov. 1. J. J. Steadman is Superv. of Bridges & Bldgs., N. O. & N. E. R. R. Co., New Orleans.

MOUNT VERNON, OHIO.—Frank L. Packard, 1212 Hayden Bldg., Columbus, Ohio, has prepared plans for a 3-story administration building, 254 × 121 ft., 1-story powerhouse and laundry buildings, 55 × 100 ft., and kitchen and cold storage building, to be erected at Mount Vernon for the State Sanitorium Commission, C. O. Probst, Pres., Columbus. Press and glazed brick and Indiana limestone, galvanized iron skylights, marble and tile work, electric wiring, structural iron and steel work, water closets, washstands, bath tubs will be used. Cost, $175,000.

EVANSVILLE, IND.—Contracts for construction and equipment of a 7-story reinforced concrete hotel for the Vendome Hotel Co. have been awarded as follows: Reinforced concrete structure, MORGAN & WALTERS; tile flooring, EDWARD SONTAG; brick work, ANTON KESSLER; plastering and ornamental work, JAMES M. SPAIN; stone work, CAMDEN STONE CO.; galvanized iron and tin work, H. LOHSE & CO.; mill work, MECHANICS' PLANING MILL CO.; carpenter work, JOHN KOCH; electric light plant and telephone system, A. L. SWANSON; electric elevators, GROTE MFG. CO.; plumbing and heating plant, AUGUST SCHMITT CO. F. J. Schlatter, 113½ North Fourth St., Evansville, is Arch.

CHICAGO, ILL.—Plans have been accepted for the proposed new city hall. The plans for the exterior will be exact duplicates of those for the exterior of the county building, now nearing completion. Work will be started at once razing the present city hall. Estimated cost, $10,000,000. Holabird & Roche, Monadnock Block, Chicago, are Archs.

WEBSTER CITY, IOWA.—Bids are asked until 3 p. m., June 17, by James Knox Taylor, Superv. Arch., for constructing, complete, the proposed U. S. post-office at Webster City.

SPRINGFIELD, MO.—Plans have been prepared and bids will be received in about two weeks for a 2-story stone building for the State Normal School at Springfield, 157 × 228 ft. Drischler & Elsner, Wainwright Bldg., St. Louis, Mo., are Archs.

ST. LOUIS, MO.—Mariner & Le Beaume, Archs., Chemical Bldg., have let general contract to E. REMMERS, 805 Cass Ave., for a 7-story brick and stone mercantile and office building, 48 × 127 ft., at Sixth and Chestnut Sts., for the Tutt Estate, Liggett Bldg. Cost, $200,000.

Mauran, Russell & Garden, Archs., Chemical Bldg., St. Louis, are preparing plans and will receive bids at once for a 16-story bank and office building, 150 × 128 ft., at Broadway and Pine St., for the National Bank of Commerce. The building will be constructed of brick, stone, terra-cotta and reinforced concrete. Estimated cost, $750,000.

The Lean-Gould Advertising Co. will erect an 8-story building at Washington Ave. and Charles St., to cost about $150,000.

SAN ANTONIO, TEX.—Plans are being prepared by George Danks, Arch., 324 Mermod & Jackson Bldg., St. Louis, Mo., for a hotel to be constructed here to cost about $500,000.

SPOKANE, WASH.—J. K. Dow, Empire State Bldg., and Preusse & Zittel, Jameson Bldg., Archs., have been appointed by the Washington State Board of Control to prepare plans for all east side public buildings to be erected as provided for at the last session of the Washington Legislature. The appropriations for these buildings amount to $980,000.

SEATTLE, WASH.—Bids are asked until 3 p. m., June 11, by James Knox Taylor, Superv. Arch., Washington, D. C., for installing steam heating and ventilating apparatus, complete, in the U. S. court-house, custom-house and post-office building at Seattle. (Advertised, Engineering News.)

SAN FRANCISCO, CAL.—Application has been made to the Board of Public Works by James L. Flood, James Flood Bldg., for a permit to erect a 5-story brick building on the north side of Mission St., between Third and Fourth Sts., at a cost of about $175,000.

Edward Rolkin, Oak and Stanyan Sts., has applied to the Board of Works for a permit to build a 5-story and basement brick hotel building containing 600 rooms on the corner of Larkin and McAllister Sts. at a cost of $300,000. M. J. Lyon, 919 Ellis St., is Arch.

OAKLAND, CAL.—The Western Pacific Ry. Co. has decided to begin construction of its terminal at Oakland at once. The work will involve filling a mole 1,000 ft. wide between 4,000 and 5,000 ft. long, and includes a new station with slip approaches at the western end. The work, which will take about 18 months to complete, will cost about $2,500,000. V. G. Bogue, San Francisco, is Vice-Pres. and Ch. Engr.

OGDEN, UTAH.—Bids are asked until 3 p. m., June 24, by James Knox Taylor, Superv. Arch., Washington, D. C., for construction (except heating apparatus and conduit and wiring) of an extension to the U. S. post-office and court-house building at Ogden.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

EAST MIDDLEBURY, VT.—A water-works system will be installed. Estimated cost, $5,000.

NORTH ADAMS, MASS.—F. A. HOUDLETTE & SON, 93 Broad St., Boston, Mass., have been awarded contract for furnishing 81 tons 14-in. water pipe, at $3,600. Harry E. Blake is City Engr.

MERIDEN, CONN.—The Board of Public Works contemplates constructing reservoir at Broad Swamp. The reservoir will be about 1½ miles long and at the dam will be 25 ft. deep, with an average depth of 15 ft. In connection with the reservoir a pumping station and storage reservoir will be located at Johnsons Hill. W. S. Clark is City Engr.

ALBANY, N. Y.—The Board of Contract and Supply, Wallace Greenalch, Supt., has awarded to BESCHE & BEEBE, of Utica, N. Y., the contract for furnishing and installing preliminary filters at the filtration plant in connection with the improvement of the city's water supply system, for $97,803. Walter Melius is City Engr.

CARTHAGE, N. Y.—The Board of Water Commissioners have let contract to BURNS BROS. & HALEY, of Watertown, N. Y., for constructing water-works system, at $62,190. Bids were also submitted by E. D. Bennett, Pulaski, N. Y., $71,575, and Charles O. McCombs, Adams, N. Y., $56,723. The CHARLES A. MILLAR & SON CO., of Utica, N. Y., secured contract for furnishing pipe required for the water-works system, at $34.20 per net ton. The U. S. Cast-Iron Pipe & Foundry Co., 80 Broadway, N. Y., bid $40.30 per net ton.

NEW YORK, N. Y.—See under Light and Power Plants.

NEW YORK, N. Y.—Bids are asked by the Department of Water Supply, Gas & Electricity, John H. O'Brien, Comr., until 2 p. m., May 29, for furnishing, delivering and laying water mains and appurtenances in Eighth, Eleventh, Coney Island and Prospect Aves., 15th, 18th and 20th Sts., and Terrace Pl., Boro. of Brooklyn.

PASSAIC, N. J.—Bids are asked by the Commission on Water Supply until 8 p. m., June 28, for (A) distributing, laying, etc., about 37 miles 6 to 20-in. pipe, hydrants, etc., to be supplied by city, and (B) furnishing and delivering all pipe, hydrants, gate valves and specials. Anton L. Petterson is City Surv. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked until noon, May 31, by George R. Stearns, Dir. Dept. of Public Works, for filtering materials and collectors for the Torresdale filters. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Dept. Pub. Wks., until noon, June 3, for furnishing and laying steel or c.-i. water pipe and all appurtenances for High Pressure Fire Service, Specification No. 63. (Advertised, Engineering News.)

BALTIMORE, MD.—The Board of Awards May 2 awarded to OWEN PATTERSON and M. F. BANAGAN contract for building reinforced concrete reservoir at Bayview Asylum for $9,836. Alfred M. Quick is Water Engr.

WILMINGTON, N. C.—The city has voted bonds amounting to $900,000 for water-works and sewerage ($500,000) and street improvements ($400,000). C. R. Humphreys is City Engr.

GREEN COVE SPRINGS, FLA.—A water-works system will be established by A. A. Kind, of Jacksonville.

MERIDIAN, MISS.—The City Council has decided to prepare an amendment to the charter enabling the city to issue bonds amounting to $50,000 to extend the water-works system.

GULFPORT, MISS.—The city has agreed to issue bonds amounting to $30,000 for enlarging and improving the water-works system.

BOGALUSA (Adams post-office), LA.—Plans are being prepared for constructing sewerage system and reservoir at Bogalusa for the Great Southern Lumber Co. J. F. Coleman, 920 Hibernia Bldg., New Orleans, La., is Engr.

ALEXANDRIA, LA.—Bids are asked by the Mayor and Board of Aldermen until June 4 for furnishing material and constructing about two miles of 6-in. c.-i. water mains, with valves and accessories. Ira W. Sylvester is City Engr.

CARENCRO, LA.—PHILIP H. PORTER has secured contract for installing water-works system.

ERIN, TENN.—The town has granted a franchise to Eric Rouscher, G. B. Sullenger and J. C. Hobbs to establish a system of water-works.

CINCINNATI, OHIO.—Bids are asked until May 31 by the Board of Trustees, Comrs. of Water-Works, Aug. Herrmann, Pres., for laying about 4,730 lin. ft. 24-in. c.-i. pipe, special castings and valves in Liberty St. and 2,130 lin. ft. 10, 16 and 20-in. c. i. pipe in Freeman Ave., Mound and Hulbert Sts. Charles N. Dannenhower is Ch. Engr., Bd. Pub. Service.

DAYTON, OHIO.—The Board of Public Service has let contract to BABCOCK & WILCOX CO., 85 Liberty St., New York., for installing two 500-HP. boilers at the water-works, at $13,150. Robert E. Kline is City Engr.

IRONTON, OHIO.—The contract for 200-HP. steam boiler for water-works pumping station has been awarded to the HEINE BOILER CO.

BELLAIRE, OHIO.—Bids are asked by the Board of Public Service, R. E. Crow, Clk., until noon, June 17, for furnishing vertical pumping engine, with capacity of 6,000,000 gallons per day, and furnishing material and constructing brick building and concrete foundations. (Advertised, Engineering News.)

SANDUSKY, OHIO.—The Council May 7 ordered the issue of bonds amounting to $75,000 for constructing 6,000,000-gal. filtration plant. A. C. Schultz is City Engr.

KOKOMO, IND.—Bids are being received by the County Commissioners for constructing Conkle Ditch in Howard County.

The County Commissioners have let contract for constructing Squirrel Creek Ditch to the NAPPANNEE DRAINAGE CO., at 92 cts. per sq. yd.

BELDING, MICH.—Bids are asked by the city until May 31 for constructing 65,000-gal. reservoir, 20 ft. in diameter by 24 ft. deep, constructed of No. 2 paving brick, laid in cement, with wood roof covering. (Advertiser, Engineering News.)

EAST TROY, WIS.—Bids will soon be asked by the Village Clerk for drilling 8-in. well 300 to 400 ft. deep.

MILWAUKEE, WIS.—The Schlitz Brewing Co. will erect pumping station to contain two 6,000,000-gallon pumps for water to be used in cooling processes. The cost will be $110,000 and the site at the southwest corner of Walnut and Commerce Sts.

DES MOINES, IOWA.—Bids are asked until June 1 by Lew Burnett, County Auditor, for furnishing material and excavating and constructing drainage ditch in Drainage Dist. No. 4, requiring excavating about 50,000 cu. yds. of earth.

ST. PAUL, MINN.—The Water Board is reported to have awarded contract for constructing about 7,000 ft. of concrete conduit, to extend from the present Centerville conduit south to Deep Lake, to A. C. Schreiter & Co., at $33,234. The other bidders were: Nelson Bros. Paving & Construction Co., $29,184; Geo. J. Grant & Co., $79,262, and Portland Stone Co., $89,760. L. E. Rundlett is City Engr.

JUMBO FALLS, MINN.—Bids are asked by the village until May 24 for constructing water-works system, consisting of concrete reservoir, pipe line, brick pump-house, gasoline engine and well. Oscar Claussen, German-American Bank Bldg., St. Paul, is Consult Engr.

BIGTIMBER, MONT.—Bids are asked until June 3 by E. C. Hale, Town Clk., for furnishing material and constructing a water supply system. Engineer's estimate: 140 ft. diversion wire across Boulder River; 15,840 ft. vitrified pipe conduit, 500,000-gallon concrete lined reservoir, 12,060 ft. 12-in. wire wound wood stave pipe for heads, varying from 50 to 170 ft.; 2,600 ft. 10-in., 1,140 ft. 8-in., 17,360 ft. 6-in., 5,280 ft. 4-in. wire wound wood stave distributing pipe for heads varying from 170 to 200 ft., together with valves, hydrants, etc. Chas. W. Helmick, at Helena, is Engr.

DALLAS, TEX. — The Texas Co. has awarded contract for supplying steel for three pump houses, two boiler houses and warehouse to the SOUTHWESTERN BRIDGE CO., of Joplin, Mo.

THOMAS, OKLA.—Bids are asked by the Mayor and City Council until May 30 for furnishing all pipe, hydrants, valves, boilers, feed water heaters, pumps, boiler feed pumps, air compressor, etc., required in constructing water-works. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs. (Advertised, Engineering News.)

COMANCHE, IND. T.—Bids are asked by the Mayor and City Council until May 28 for furnishing all pipe, hydrants, valves, boilers, feed water heaters, pumps, boiler feed pumps, cement, sand, stone, brick, required in constructing water-works. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs. (Advertised, Engineering News.)

NACOGDOCHES, TEX.—Bids are asked by the Mayor and City Council until June 5 for furnishing all pipe, hydrants, valves and boilers required in the extension of the water-works system. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs. (Advertised, Engineering News.)

SALT LAKE CITY, UTAH.—The Secretary of the Interior has awarded contract to the DAYTON GLOBE IRON WORKS, Dayton, Ohio, for furnishing and delivering f. o. b. cars at factory, turbine water wheels and appurtenances for the Strawberry Valley Irrigation Project, Utah, at $18,155. The lowest bid received was that of the Trump Mfg. Co., of Springfield, Ohio, $17,651. The efficiency of the machinery they proposed to furnish, however, was only 77% as compared with 80% guaranteed by the company which was awarded the contract.

SUMMERSIDE, P. E. I.—Bids are being received by the Water Commissioners for constructing water-works and sewerage system.

SASKATOON, SASK.—The SASKATOON CONSTRUCTION & ENGINEERING CO., of Saskatoon, has secured contract for laying and trenching and constructing foundation for water tower, for $71,747.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

WATERBURY, VT.—The Board of Village Trustees, C. C. Graves, Pres., has awarded contract for laying approximately six miles of 6 to 8-in. sewers to W. S. TEACHOUT, Essex Junction, Vt., at $17,600. Bids were also submitted as follows: Horton & Ritchie, Rutland, Vt., $21,431; Charles E. Walbridge, Plymouth, $24,982; Ablett & Bowes, Cohoes, N. Y., $25,480; H. B. Failing, Baldwinsville, N. Y., $26,182; Bryne Construction Co., Boston, Mass., $26,292; Long & Little, Leominster, Mass., $26,656; Eveleth Bros., Waterford, N. Y., $27,640; The Pierson Engineering & Construction Co., Bristol, Conn., $27,296; C. E. Trumbull Co., Boston, Mass., $28,648; John A. Karg, Johnstown, N. Y., $29,477; J. B. O'Rouke, South Boston, Mass., $32,556, and W. S. Ames & Co., Saranac Lake, N. Y., $35,848. John L. Collins, 444 Broadway, Albany, N. Y., is Engr.

BEVERLY, MASS.—M. GRADY & SON have been awarded contract for constructing 750 ft. 12-in. pipe sewer in Odell ave. H. L. Whitney is City Engr.

DANBURY, CONN.—ALFRED L. DAVIS, Asst. City Engr, has secured contracts for constructing sewers in Beaver, West Wooster, East Pearl, White and Duvant Sts., at $5,324.

ALBANY, N. Y.—Bids are asked by the Board of Contract until 3 p. m., May 29, for laying vitrified pipe sewer under carriageway of Lancaster and Park Sts., from Eagle St. to a point near Swan St.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., May 22, for constructing (A), 24-in. tile sewer in portion of Franklin St.; (B), 12 and 15-in. vitrified tile sewer in portions of Doat and Petre Sts.; (C), 10-in. vitrified tile sewer in portion of Hughes Ave. and (D) 10-in. vitrified tile sewer in portion of Good Ave. Charles M. Morse is Deputy Engr. Comr.

JAMESTOWN, N. Y.—The JOHNSON ICE AND COAL CO. has secured contract for furnishing sewer pipe to the city during the coming year at 77 per cent. less than list price. C. G. Jones is City Engr.

BINGHAMTON, N. Y. — The Common Council has awarded contract for constructing Fourth Ward sewer to STEPHEN FLANIGAN & SON, Scranton, Pa., at $88,000. De Nallo & Klingberg, Kingston, N. Y., bid $95,000. S. M. Baird is City Engr.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, May 28, for constructing temporary combined sewers and appurtenances in portions of various streets, Boro. of Richmond.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., May 27, for furnishing and delivering 150 manhole heads, 300 manhole covers, 50 basin covers, 250 hoods and plates, 50 flat basin grate bars (corners), 100 flat basin grate bars (sides), 50 herringbone grate bars (corners), 150 herringbone grate bars (sides), 100 manhole step irons.

MORRISTOWN, N. J.—Bids are asked by Eugene S. Burke, Secy. Board of Sewerage, until 10 a. m., June 1, for furnishing and delivering (A) all materials, except vitrified clay sewer pipe and fittings, for constructing about 28 miles, 8 to 24-in. pipe sewers, including manholes, flush tanks, c.-i. culvert pipe, etc., and four ejector chambers, including ejectors, motors and compressors; (B) 28 miles vitrified 8 to 24-in. sewer pipe and fittings, f. o. b. Morristown and (C) sewage disposal plant, including grading, sedimentation tanks, contact beds, filters, pipe connections and all necessary appurtenances. Arthur S. Pierson is City Engr. (Advertised, Engineering News).

SUMMIT, N. J.—We are officially advised that bids for constructing sewage tank near pumping station near Chatham Road and Passaic River were received May 7 by the Common Council as follows: For constructing pumping station trunk sewer, Charles Ippolito, Orange, N. J., $15,863; D'AMATO & STEFFANELLI, Newark, N. J., $12,367 (awarded contract); Field, Barker & Underwood, Philadelphia, Pa., $17,952; Antonio

Costa, Orange, N. J., $13,942, and John W. Heller, Brooklyn, N. Y., $13,221. For constructing reinforced sewage tank, A. Costa Construction Co., Summit, N. J., $15,000; Antonio Costa, Orange, N. J., $16,000; John W. Heller, Brooklyn, N. Y., $14,813; Philadelphia Water Purification Co., Philadelphia, Pa., $24,784; W. W. Lindsley & Co., Philadelphia, Pa., $19,800, and SLOAN & LUTZ, Newark, N. J., $14,351 (awarded contract). W. S. Logan is City Engr.

BOUND BROOK, N. J.—MR. McNABB, of this city, has secured contract for constructing sanitary and storm sewer, at $16,-00. Arthur E. Smith & Frank J. Hubbard, Plainfield, N. J., bid $23,500; Richards & Gaston, of Somerville, N. J., $23,000, and Jelin, of New Brunswick, N. J., $22,000. F. N. Voorhes is Boro. Clk.

WEST SCRANTON (Scranton post-office), PA.—The following bids were opened April 22 for construction of the Twelfth Dist. sewer in West Scranton: M. A. Donohue, $2.95 per lin. ft.; Cafiery & Murphy, $3.55; Frank J. Egli, $3.37; Stephen Flannigan & Son, $3.78; Dale & Gaynor, $3.44; Suruks Bros., $3.20; V. H. O'Hara, $3.80; Geo. W. Ruch, $3.21; Salvatore De Martini & Co., $3.41, and J. J. Marquart & Co., $3.45.

OAKMONT, PA.—Bids are asked by George Stoup, Boro. Clk., until 7:30 p. m., May 20, for constructing 36 and 48-in. brick or concrete storm sewer in West Railroad Ave. and Archie St. Douglass & McKnight, 1710 Union Bank Bldg., Pittsburg, Pa., are Boro. Engrs.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, May 27, for constructing sewer. (Advertised, Engineering News.)

FT. MONROE, VA.—Specifications for constructing c.-i. sewer outlet are on file at office of Engineering News, New York. Bids are asked by Capt. R. H. C. Kelton, Q. M., until June 1. (Advertised, Engineering News.)

PARKERSBURG, VA.—Bids are asked by the Board of Affairs until 8 p. m., June 6, for furnishing material and constructing extension of 2-ring brick storm sewer, six feet in diameter, on portions of 13th and Ramsey Sts. J. V. Dunbar is City Engr. (Advertised, Engineering News.)

WILMINGTON, N. C.—See under Water Supply—Irrigation.

TROY, ALA.—C. M. BURKHALTER & CO., of Birmingham, have been awarded contract for sewerage work, at $4,258.90.

WOODLAWN (Birmingham post-office), ALA.—Plans are being considered for constructing sewer system. Cost, $33,000.

AVONDALE (Birmingham post-office), ALA.—The contract for construction of the Avondale sewer branch has been awarded to C. M. BURKHALTER & CO., Birmingham, at $12,557.

PASCAGOULA, MISS.—The city will issue $20,000 in bonds for constructing sewerage system and street improvements.

SPRINGFIELD, OHIO.—Bids are asked by the Board of Public Service, F. A. Crothers, Clk., until noon, June 4, for constructing outfall sewer and temporary outlet for sanitary system of sewerage. For approximate quantities of work and materials see advertisement. (Advertised, Engineering News.)

BUTLER, IND.—The City Council is considering construction of sewerage system. Estimated cost, $45,000. John H. W. Krontz is City Engr. Wm. G. Clark, Consult. Engr., at Toledo, Ohio.

NORMAL CITY (Muncie post-office), IND.—Bids will probably be received the latter part of May for constructing sewerage system. Estimated cost, $11,000. James G. Mendenhall is Town Clk. M. J. O. Potter, of Muncie, is Engr.

DOWAGIAC, MICH.—Bids are asked until May 31 by H. L. Rutter, City Clk., for furnishing material and constructing about two miles of 48, 42 and 40-in. sewers, with manholes, flushtanks, etc. J. S. Haines is City Surv.

GRAND RAPIDS, MICH.—The Board of Public Works has awarded contract for constructing West Leonard St. sewer to CHARLES CARPENTER, at $10,800. L. W. Anderson is City Engr.

OAK PARK, ILL.—Bids are asked by the Board of Local Improvements, B. C. Brandstadt, Secy., until May 21, for constructing sewers and pavements. The work includes 980 lin. ft. 18-in., 1,600 lin. ft. 15-in., 3,480 lin. ft. 12-in. double strength pipe sewer, 40 manholes, 48 iron catch-basins, 103 18-ft. house drains, 3,720 sq. yds. asphalt pavement and 2,750 lin. ft. concrete combined curb and gutter. R. A. Carpenter is Engr.

WINNETKA, ILL.—The following bids were received April 9 for constructing storm water sewer: A. C. Schrieter, Manitowoc, Wis., $21,986; F. G. Mortimer, Glencoe, Ill., $22,711; John Green, Chicago, Ill., $23,785; Andrew Thomsen, Racine, Wis., $26,173, and Robert Nelson, Racine, Wis., $28,634. Frank A. Windes is Engr. Itemized bids will be given next week under Contract Prices.

LA CROSSE, WIS.—The Board of Public Works has let contract to THIEL & LAPITZ for constructing five blocks of sewers. W. S. Woods is City Engr.

COUNCIL BLUFFS, IOWA.—Plans are being considered for laying 25,000 lin. ft. of curbing and sewers for various streets. S. L. Emyre is City Engr.

FARGO, N. DAK.—The City Council has let contracts for constructing sewers in Fifth and Eleventh Sts. to G. W. HAGGART. Samuel F. Crabbe is City Engr.

CAMDEN, ARK.—E. A. Kingsley, of Little Rock, is preparing plans for constructing sewers. Estimated cost, $8,000.

BARTLESVILLE, IND. T.—Plans are being considered for constructing sewer extension. Cost, $40,000. W. H. Whaley is City Engr.

SPRINGFIELD, ORE.—McCLAIN & McARTHUR have been awarded contract for constructing sewer system at $3,528.

BELLINGHAM, WASH.—Bids are asked by B. B. Graves, City Compt., until 11 a. m., May 31, for constructing sub-sewer, subsewer district No. 29, in I St.

SAN DIEGO, CAL.—The Board of Public Works has let contract for constructing sewer laterals in Fifth St., between A and University Aves., to C. H. JULIAN, at $5,950. G. A. D'Hemecourt is City Engr.

WOODSTOCK, ONT.—The contract for constructing the North system of sewers has been awarded to THOMAS BABYN. The CONCRETE & ENGINEERING CO., of London, Ont., has secured contract for constructing the South system. HASTINGS & SON, of Woodstock, has the contract for supplying vitrified and concrete pipe. F. J. Ure is City Engr.

SUMMERSIDE, P. E. I.—See under Water Supply—Irrigation.

FERNIE, B. C.—HUGH MACDONALD, of Victoria, B. C., has been awarded contract for constructing sewerage system. R. Potter is City Engr.

GARBAGE DISPOSAL.

BOSTON, MASS.—The committee appointed by Mayor Fitzgerald to consider the garbage question recommends establishing a municipal garbage plant upon expiration of present contract with the New England Sanitary Product Co. in 1912. The committee also recommends changes to the Ft. Hill wharf on Atlantic Ave., where garbage scows are loaded, at a cost of $40,000.

SCHENECTADY, N. Y.—Bids are asked by the Board of Contract and Supply, Lewis B. Sebring, Clk. Pro. Tem., until 2 p. m., May 22, for collection and sanitary disposal of ashes, rubbish, garbage and dead animals, for a term of five years from Oct. 1, 1907. (Advertised, Engineering News.)

RANKIN (Allegheny post-office), PA.—The Council is reported to have decided to construct a garbage furnace.

WASHINGTON, D. C.—Bids are asked until noon, May 25, by the District Commissioners for constructing a municipal crematorium on the Washington Asylum Grounds. (Advertised, Engineering News.)

MONTREAL, QUE.—An incinerator and burner will be constructed in eastern part of the city. Cost, $5,000. John R. Barlow is City Surv.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

PROVIDENCE, R. I.—The Common Council voted May 6 to pave Angell St., from Prospect St. to Wayland Ave., with bitulithic pavement, at a cost of $31,675. One-third of which will be borne by the Rhode Island Co. for the paving between its tracks and for a space of 18 ins. outside. Otis F. Clapp is City Engr.

BRIDGEPORT, CONN.—Specifications and bidding sheets for furnishing and laying about 14,500 sq. yds. of wood or vitrified paving blocks on Fairfield Ave., from Park to Clinton Aves., are on file at office of Engineering News, New York. Bids are asked by the Aldermanic Commissioners on Streets and Sidewalks, A. V. Hartley, Chn., until May 21, as advertised in Engineering News, May 2-9.

AUBURN, N. Y.—New bids will be received until May 21 by the Mayor for paving, curbing, relaying sidewalk, etc., on Genesee St. Approximate quantities: 20,000 sq. yds. asphalt paving, 640 sq. yds. brick paving outside of car tracks, 1,530 sq. yds. block stone pavement, 12,000 lin. ft. curbing, 20 catch basins, 100,000 sq. ft. sidewalk relaid, 550 lin. ft. headers. Bids received for this work May 2 were all rejected. J. Walter Ackerman is City Engr.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, May 28, for furnishing and delivering (A) broken stone and screenings at the Tompkins Ave. yard, Clifton, S. I., and (B) furnishing and delivering broken stone and screenings at stable B, Columbia St., West New Brighton, S. I.

Bids were opened April 25 by Louis F. Haffen, Pres. Boro. of the Bronx, for paving work, and the following are the lowest bidders for each street: Willis Ave., from East 134th St. to Third Ave., Asphalt Construction Co., Madison Ave. and 137th St., 24,000 sq. yds. sheet asphalt, $1.43; 100 cu. yds. concrete, $5.65; 700 lin. ft. old curb, 45 cts.; total, $35,200. Crotona Ave., from East 187th St. to Southern Boulevard, Continental Asphalt Paving Co., 42 Broadway, 8,980 sq. yds. asphalt blocks, $1.86; 1,360 cu. yds. concrete, $4.48; 3,500 lin. ft. old curb, 31 cts.; total, $23,881. Boston Road, from East 177th St. to Bronx Park, Continental Asphalt Paving Co.: 7,050 sq. yds. asphalt blocks, $1.94; 1,090 cu. yds. concrete, $4.48; 3,000 lin. ft. old curb, 35 cts.; total, $19,610. Garrison Ave., from Hunts Point Road to Whittier Ave., Continental Asphalt Paving Co.: 6,620 sq. yds. asphalt blocks, $1.83; 1,000 cu. yds. concrete $4.48; 2,750 lin. ft. new curb, 90 cts.; total, $19,070. Fairmount Pl., from Southern Boulevard, to Prospect Ave., Continental Asphalt Paving Co.: 3,450 sq. yds. asphalt blocks, $1.86; 585 cu. yds. concrete, $4.48; 2,560 lin. ft. new curb, 38 cts.; total, $10,529. Regulating, etc., Belmont Ave., from East 175th St. to 177th St., McCabe, Holland Co.: 4,900 cu. yds. earth excavation, $1.02; 8,700 cu. yds. rock excavation, $1.02; 2,000 lin. ft. new curb, 75 cts.; 8,100 sq. ft. flag, 25 cts.; 150 sq. ft. bridgestone, 60 cts.; 100 cu. yds. dry rubble masonry, $1.50; total, $17,637. Regulating, etc., West Farms Road, from Bronx River to Morris Park Ave., G. I. Bailey, as follows: 5,800 cu. yds. earth excavation, 80 cts.; 3,000 cu. yds. rock excavation, $1.45; 2,350 lin. ft. new curb, 85 cts.; 8,900 sq. ft. new flag, 24 cts.; 2,400 sq. ft. bridgestone, 50 cts.; 150 cu. yds. dry rubble masonry, $1.50; 50 cu. yds. rubble in mortar, $4; 260 lin. ft. vitrified pipe, $3.50; 7 receiving basins, 12-in. vitrified pipe, $2.50; 550 lin. ft. 18-in. each $170; 10,500 sq. yds. granite block pavement, $2.25; 4 manholes, each $60; 950 sq. yds. old paving blocks, to be purchased by contractor (amount deducted from final estimate), per sq. yd., 20 cts.; total, $42,188.

Bids are asked by J. A. Bensel, Commissioner of Docks, until noon, May 27, for furnishing materials and curbing and flagging and laying granite pavement, with crosswalks, within the area of the marginal street on the Chelsea section, between Bloomfield and West 15th Sts, North River.

Bids were opened May 1 by John F. Ahearn, Pres. Boro. of Manhattan, for repairing and maintaining, etc., sheet asphalt pavement in Manhattan Boro., upon streets included within the following boundaries: (a) Northwest Dist., to consist of 60,000 sq. yds. asphalt paving, including binder course, and 100 cu. yds. Portland cement concrete; (b) Northeast Dist., same quantities; (c) Lower Dist., 55,000 sq. yds. asphalt and 100 cu. yds. Portland cement concrete: The Uvalde Asphalt Paving Co., 1 Broadway, submitted the lowest bid on the three districts, bidding for asphalt 83 cts. per sq. yd., and concrete $6.15 per cu. yd. Totals of bids received were: Barber Asphalt Paving Co., 114 Liberty St., (a) and (b) $83,400, (c) $76,500; Sicilian Asphalt Paving Co., 54th St. and Twelfth Ave., (a) $72,600, (b) $90,600, (c) $83,100; Asphalt Construction Co., Madison Ave. and 137th St., (a) $82,-205, (b) $82,205, (c) $82,650; Uvalde Asphalt Paving Co., (a) and (b) $50,475, (c) $46,325.

The lowest bid opened May 2 by Louis F. Haffen, Pres. Boro. of The Bronx, for regulating, etc., Baychester Ave., from White Plains Road to Boston Road was submitted by Mecurio & Palladino, at the following bid: 35,600 cu. yds. earth excavation, 70 cts.; 81,500 cu. yds. rock excavation, $1.34; 117,300 cu. yds. fill, 8 cts; 17,200 lin. ft. new curb, 65 cts.; 65,700 sq. ft. new flag, 23 cts.; 11,400 sq. ft. new bridgestone, 75 cts.; 1,400 cu. yds. dry rubble masonry, $2.50; 150 cu. yds. rubble in mortar, $5.50; 20 cu. yds. brick masonry, $20; 1,100 cu. yds. concrete, $7.50; 1,450 lin. ft. 12-in. vitrified pipe, $1.75; 1,430 lin. ft. 18-in. vitrified pipe, $2; 1,000 lin. ft. 30-in. vitrified pipe, $2.50; 10 M. ft. lumber, each $40; 25 manholes, each $55; 27 inlets, $15; 69,000 lbs. steel rods, 5 cts., and 5,000 lbs. cast-iron, 5 cts; total, $190,867. The totals of the other bids received were: C. Cippola, $222,614; J. B. Malatesta, $219,141; D. W. Moran, $218,301; P. J. Kane, $256,995; J. C. Rodgers, $234,-054; C. W. Collins, $219,277, and G. I. Bailey, $251,333. The following bids were received at the same time for paving Creston Ave., from East 181st St. to East 198th St.: (a) 15,150 sq. yds. asphalt blocks; (b) 2,450 cu. yds. concrete; (c) 8,900 lin. ft. old curb; (d) totals: Asphalt Construction Co., (a) $1.79, (b) $5.50, (c) 39 cts.; (d) $44,064; Barber Asphalt Paving Co., (a) $1.74, (b) $5.24; (c) 33 cts., (d) $42,136; Continental Asphalt Paving Co., (a) $1.89, (b) $4.48, (c) 30 cts., (d) $42,279; Sicilian Asphalt Paving Co., (a) $2.50, (b) $6, (c) 50 cts., (d) $57,025; Hastings Pavement Co., (a) $1.90, (b) $4.80, (c) 36 cts., (d) $43,749.

The following bids were received May 8 by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading, paving, curbing, etc., portions of the following streets: Silliman Pl., Barber Asphalt Paving Co., 114 Liberty St., $9,742; Cranford Co., 52 Ninth St., Brooklyn, $8,810; Uvalde Asphalt Paving Co., 1 Broadway, $8,934; 93d St., Norton & Gorman Co., 303 Douglass St., Brooklyn, $14,053; James Purcell, Brooklyn, $11,178; Seaboard Construction Co., 639 Gaws Ave., Brooklyn, $12,964; William Rosenkrantz, Brooklyn, $12,637; James O'Hara, 157 Hull Ave., Brooklyn, $10,760. East Fourth St., Barber Asphalt Paving Co., $9,061; Cranford Co., $8,567; Uvalde Asphalt Paving Co., $8,781. Division Ave., Barber Asphalt Paving Co., $10,175; Uvalde Asphalt Paving Co., $10,402. Cumberland St., Barber Asphalt Paving Co., $11,237; Uvalde Asphalt Paving Co. $11,022.

ITHACA, N. Y.—Bids are asked by Bailey, Johnson & Saunders, Ithaca, for excavating 50,000 yds. earth on state roads (will furnish scrapers) and for 2,000 yds. third-class concrete. (Advertised, Engineering News.)

SCHENECTADY, N. Y.—C. M. GRIDLEY has been awarded the contract for constructing the parkway to be known as the Boulevard, from Ellis Hospital to the Mohawk Golf Club grounds.

GLENS FALLS, N. Y.—Bids are asked by W. M. Cameron, Village Clk., until 8.15 p. m., May 29, for constructing about 15,000 sq. yds. asphalt, 6,425 sq. yds. beveled vitrified paving block and 700 sq. yds. granite block pavement. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., May 20, for resurfacing with sheet asphalt Woodlawn Ave., from Lake Ave. to Partridge St.; North Pine Ave., from Western to Washington Aves.; and North Allen St., from Western to Central Aves. The work includes removal of present asphalt pavement, and its deposition in such places as the city engineer may direct, repairing foundations, resetting curb on concrete, relaying sidewalks, etc.

Bids are asked at the same time for improvement of Congress St., from west line of Capitol Pl. to east line of Swan St. The work includes grading, curbing and paving carriageway with vitrified blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins and laying vitrified pipe sewer under carriageway of Capitol Pl. and Congress St.

Bids are asked at the same time for improvement of North Hawk St., from Clinton Ave. to south line of First St. The work includes grading, curbing and paving carriageway with granite blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins, etc.

Bids are asked at the same time for grading road from Livingston Ave. to Tivoli reservoir, including construction of vitrified pipe sewer under the road, and repairing the present sewer along Tivoli reservoir. Walter Mellus is City Engr.

LONG ISLAND CITY, N. Y.—A complete list of bids received Mry 7, by Joseph Bermel, Pres. Boro. of Queens, for paving, etc., here, will be given next week.

FREEHOLD, N. J.—Bids are asked by the County Board of Chosen Freeholders, George W. Patterson, Jr., Clk., until 11 a. m., June 12, for constructing and repairing the Eatontown and Colts Neck, Long Branch and Asbury Park and the Allentown stone roads. William H. De Nyse, 164 Broadway, Long Branch, N. J., is Engr. (Advertised, Engineering News.)

PATERSON, N. J.—The Board of Chosen Freeholders May 1 awarded contracts as follows: The Midvale (Greenwood Lake) Road, JOHN C. TIERNEY, for $27,543; Macopin road (Echo Lake Road), COTTER & BERGEN, for $18,707.

NEWARK, N. J.—Contracts for brick paving on 6-in. concrete foundations have been awarded as follows: JERSEY PAVING CORPORATION for paving Austin and Wall Sts. at $2.29 per sq. yd., and Hillside Ave., at $2.28 per sq. yd. using Montello block on all streets; in all about 16,220 sq. yds.; total cost, $43,901. FRED R. PRATT, for paving Avon, Clifton, Fairmount and Ridgewood Aves., and Fifth, Fourth, South 14th, South Twelfth and Vanderpool Sts. with Catskill block at $2.27 per sq. yd.; total number of square yards on this contract, 86,363; total cost, $225,840. The NEWARK PAVING CO., 133 First St., Newark, for Duryea St., 4,600 sq. yds. with McAvoy block at $2.37 per sq. yd.; total cost, $13,799. Morris R. Sherrerd is Ch. Engr. Street and Water Comrs.

POTTSTOWN, PA.—H. H. MISSMER, of Pottstown, has secured contract for 18,000 sq. yds. repressed brick with macadam base at $1.46½ per sq. yd., and 25 cts. per lin. ft. for curb. Ralph E. Shaner is Boro. Engr.

WILLIAMSPORT, PA.—Bids are asked until May 24 by the State Highway Department, Joseph W. Hunter, Comr., Harrisburg, for constructing 3,344 ft. road in Porter Township.

BALTIMORE, MD.—The UNITED STATES WOOD PRESERVING CO. has been awarded contract to pave Division St. with creosoted wood block for $3.73 per sq. yd.

PETERSBURG, VA.—A. G. MURPHY, of Port Huron, Mich., has secured contract for paving about 24,000 sq. yds. with Mock vitrified blocks, at $2.03 per sq. yd. R. D. Budd is City Engr.

WILMINGTON, N. C.—See under Water Supply—Irrigation.

LEXINGTON, N. C.—The WEST CONSTRUCTION CO., of Chattanooga, Tenn., has secured contract for laying 8-in. granite macadam and cement curb and gutter in various streets. Gilbert C. White, at Durham, N. C., is Engr.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works until May 18 for paving various streets with asphalt. Estimated cost, $40,000. Joseph P. Claybrook is City Engr.

Bids are asked by the Board of Public Works until May 24 for grading, curbing and paving three alleys with vitrified block. Estimated cost, $3,500.

FINDLAY, OHIO.—HALL & SON have secured contract for paving Howard St. with Massillon brick, at $9,552.

LINDSLEY, OHIO.—Bids are asked by C. B. Hess until noon, May 27, for paving 7,190 sq. yds. on Main St., with block pavement on crushed stone foundation, with all curbs, drains, etc. J. C. Overmyer, Fremont, Ohio, is Engr.

ASHLAND, OHIO.—Bids are asked by Sam Huston State Highway Comr., until June 4, for constructing highway.

CAMBRIDGE, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until June 6, for constructing highway.

PIQUA, OHIO.—Bids are asked by the Board of Public Service until June 4 for furnishing materials and constructing cement gutters, repairing concrete foundations, and resurfacing Wayne and Downing Sts., and intersection of Downing and Water Sts., with brick or sheet asphalt; also for construction of cement gutters, repairing of concrete foundations and resurfacing and repairing other portions of Wayne and Downing Sts., Market, Ash, Greene and North Sts., with sheet asphalt. H. E. Whitlock is City Engr.

PLEASANT RIDGE, OHIO.—Bids are asked by W. C. Davies, Clk., until noon, June 3, for constructing artificial stone sidewalk on portion of Cypress Ave.

MARYSVILLE, OHIO.—Bids are asked until May 22 by the Board of County Commissioners, John M. Lowe, Chn., for furnishing material and graveling Phipps Road, about ¾ mile; graveling the Spain Road, about 2½ miles, both roads in Liberty Township.

SANDUSKY, OHIO.—Bids are asked by the Board of Public Service, B. J. McGory, Clk., until June 3 for grading, draining, curbing and paving Monroe and East and West Park Sts., with brick, about 26,000 sq. yds. Estimated cost, $67,000. A. C. Schultz is City Engr.

CLEVELAND, OHIO.—Bids are asked until May 18 for grading, draining and paving Northfield Road from the south line of Bedford Village to Ward's Crossing.

Bids are asked until June 1 for grading, draining and paving Road No. 4 from foot of Chestnut Hill to the southerly line of Parma Township. A. B. Lea is Co. Engr.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service until noon, May 27, for grading, setting granite curb and paving 1,300 sq. yds. with wood block on portion of Cross Lane. Estimated cost, $5,739.

Bids are asked by the Board of Public Service until noon, May 28, for 60,000 cu. yds. grading, setting 9,287 lin. ft. of limestone curb; 2,620 cu. yds. concrete, laying

10,000 ft. 4, 12, 15, 18, 21 and 24-in. drain pipe and paving 15,700 sq. yds. of vitrified brick paving on portion of Columbia Ave. Estimated cost, $86,967.

JAMES AGUES, Box No. 16, Builders & Traders' Exchange, has been awarded contract for grading, setting, sandstone curb and paving roadway with brick on Western Ave., at bid $18,901.

GEO. SCONCE, No. 2550 Burnet Ave., has been let contract for grading, setting granite curb and paving portion of Butler St. with granite blocks, at $8,464.

The P. F. McCLURE & SONS CO., No. 42 Perrin Bldg., were awarded the contract for grading, setting granite curb and paving Harrison Ave. with granite blocks, at $41,938.

COLUMBUS, OHIO.—Bids are asked by the Board of Public Service, Edward F. McGuire, Secy., until noon, May 21, for grading, paving, etc., portions of various streets and repairing 3,160 sq. yds. asphalt pavement. Henry H. Maetzel is City Engr.

MARTINSVILLE, IND.—Bids are being received by the County Commissioners for constructing seven gravel roads in Monroe Township.

ENGLISH, IND.—Bids are asked by the Board of County Commissioners until 2 p. m., June 3, for construction of macadamized roads in Crawford county, and grading and graveling various streets in English. S. E. McFall is County Audr.

GREENSBURG, IND.—Bids are asked by the County Commissioners until 1 p. m., June 3, for construction of 3,183 ft. of gravel road in Washington Township and 2,654 ft. in Salt Creek Township.

ESCANABA, MICH.—Bids are asked until May 21 by T. J. Burke, City Clk., for furnishing material for grading, curbing and paving portions of seven streets.

OAK PARK, ILL.—See under Sewerage.

CARTHAGE, ILL.—The following bids were received May 4 for paving about one mile of business streets: EBERT & SHANIHAN, of Quincy, Ill., $22,741 (awarded contract); Reese, Quincy, $22,990; McManus & Joyce, Keokuk, Iowa, $23,900.

OSHKOSH, WIS.—Bids are asked until May 18 by the Board of Public Works, W. A. Marden, Chn., for furnishing material, grading and constructing creosoted block pavement on portions of Market and Division Sts.

MASON CITY, IOWA.—Bids are asked by the City Council until May 17 for paving East 8th St. with 4,700 sq. yds. asphalt and 3,700 sq. yds. brick pavement.

OSCEOLA, IOWA.—Bids are asked by W. N. Temple, City Clk., until May 20 for laying about 27,000 sq. yds. vitrified brick paving on 6-in. concrete foundation, and 5,000 lin. ft. cement curb during the year 1907.

HALIFAX, N. S.—Bids are asked by the Mayor until noon, May 27, for paving portions of six streets. J. J. Hopewell is Clk. of Works. (Advertised, Engineering News.)

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

PORTSMOUTH, N. H.—The following bids were received May 11 at the Bureau of Yards and Docks, Navy Dept., Washington, for constructing pattern shop for steam engineering at the U. S. Navy Yard, Portsmouth: Penn Bridge Co., 312 Bond Bldg., Washington, D. C., (6) $123,829; C. M. Leach, care Navy Yard, Boston, Mass., (6) $115,773, (7) $300, (8) $89,973, conditional; the Lane Bridge Co., 6 Bronson St., Painted Post, N. Y., (9) $32,580 (steel work only), $26,740 (steel work only); James E. Leamy & Co., 28 Larned Bldg., Syracuse, N. Y., (1) $116,980, (2) $112,980, (4) $113,980, (5) $112,205, (6) $104,225, (8) $97,930; the Whiton & Haynes Co., 35 Federal St., Boston, Mass., (1) $123,000, (2) $3,375, (3) $3,375, (4) $2,993, (5) $3,200, (6) $113,432, (8) $99,890; York & Boothby Co., 222 Middle St., Portland Me., (9) $4,250 (electric and wiring system); Otis Elevator Co., 17 Battery Pl., New York, N. Y., (3) $4,000 (elevator only); Conners Bros. Co., 157 Plain St., Lowell, Mass., (1) $124,700, (2) $4,000, (4) $3,000, (5) $3,200, (6) $114,500, (7) $3,000, (8) $103,800; Woodbury & Leighton Co., 166 Devonshire St., Boston, Mass., (1) $121,445, (2) $3,300, (3) $3,300, (4) $3,000, (5) $3,500, (6) $111,645, (8) $21,500; Mack & Moore, 22 Chapman Pl., Boston, Mass., (1) $165,000, (2) $161,000, (3) $4,000, (4) $161,350, (5) $169,575, (6) $152,925, (7) $165,000, (8) $143,000.

WORONOCO, MASS.—We are officially advised that the Woronoco Paper Co., Woronoco, will build a 4-story addition, 46 × 100 ft., to its present plant. F. L. Barstow is Engr., care of the Mittineague Paper Co., Mittineague, Mass.

BRISTOL, CONN.—The E. Ingraham Co., 334 North Main St., clock manufacturer, Bristol, is to erect a 2-story brick building, 75 × 125 ft., which will be devoted to kiln dry and facilities for planing. The company states that it is not in the market for machinery.

BUFFALO, N. Y.—The Buffalo Copper Rolling Mill Co., recently incorporated with a capital of $800,000, has purchased a site of six acres in the northern part of the city bounded by Military Road, Arizona and Denver Sts. and the New York Central & Hudson River R. R. tracks, and will erect upon same a rolling mill plant to cost $350,000. George A. Ray, 1495 Niagara St., is Pres.

The International Mfg. Co. has purchased ten acres of land on the Military Road near Pullman Station on the New York Central & Hudson River R. R., two miles north of Buffalo, and will build a plant for manufacturing building material to be a substitute for brick. The main building, 200 × 300 ft., will be erected at once.

NORTH TONAWANDA, N. Y.—We are officially advised that the North Tonawanda Musical Instrument Co. will receive bids about June 1 for constructing a brick and stone boiler house, 42 × 100 ft. John George Siener, 76 Thompson St., Buffalo, N. Y., is Arch., and will have charge of the construction.

READING, PA.—The Reading Stove Works, Reading, has awarded a contract to BEARD & CO., for the erection of three foundry buildings and a fireproof brick warehouse. The foundry buildings will be 40 × 120 ft. and the warehouse 50 × 60 ft.

PHILADELPHIA, PA.—A permit has been issued to the William Steele & Sons Co., 1600 Arch St., to build a manufacturing plant for the Brown-Moore Hosiery Co., at the corner of Hancock and Westmoreland Sts. The plans call for a factory and a power-house. The first will be a 5-story brick structure, measuring 56.10 × 250 ft., and will have two wings measuring 52 × 50 ft. each. The latter will be 1-story high, of brick construction and will measure 82.2 × 32.2 ft. The cost will be $140,000.

LINCOLNTON, N. C.—The Rhodes Mfg. Co., with a capital of $300,000, will erect a cotton mill here. John M. Rhodes, C. W. Rhodes and D. P. Rhodes are interested.

FORT DADE (Egmont post-office), FLA.—Bids are asked until 8 p. m., June 15, by Lieut. M. H. Barry, Constr. Q. M., for constructing a 150,000-gallon steel tank and trestle and for installing ice and refrigerating plant here. (Advertised, Engineering News.)

WARREN, OHIO.—The Trumbull Mfg. Co. will build a new plant. There will be a store house 100 × 124 ft., core room 14 × 20 ft., core oven 16 × 20 ft., and an engine room 20 × 20 ft. Cost, $50,000.

NEW ALBANY, IND.—N. T. Depaw, W. A. McLean and associates will erect a factory in this city for manufacturing veneer. Bids will be invited as soon as plans are completed.

ELWOOD, IND.—The Frazier Packing Co. has ordered plans for erection of an addition to its plant, to include a brick boiler house and engine room.

DETROIT, MICH.—The E. R. Thomas Detroit Co. has let a contract to the TRUSSED CONCRETE STEEL CONSTRUCTION CO. for the erection of a new automobile factory, on the south side of Jefferson Ave., adjoining the new belt line. The structure, fully equipped, will cost $250,000. H. E. Coffin is Mgr., Detroit.

CHIPPEWA FALLS, WIS.—Plans for a 2-story chair factory, 48 × 120 ft., are being prepared by R. E. Snyder, Arch. A power-house, 24 × 30 ft., will be erected.

FERGUS FALLS, MINN.—Sachs & Tully, proprietors of the Fergus Falls Shirt Factory, have decided to erect a building for their factory during the coming summer. The building will be located opposite the Fergus Mfg. Co.'s establishment on Union Ave. and will be of cement brick. It will be one story high, but will be so constructed that a second story can be added later. The dimensions will be 50 × 140 ft.

PIERRE, S. DAK.—The Chicago & Northwestern Ry. Co. is making surveys for new shops to be built during the coming summer at a cost of over $200,000. E. C. Carter, Chicago, is Ch. Engr.

WEBB CITY, MO.—We are officially advised that the Mercantile Metal Milling Co. has awarded contract for 250-ton mill at Webb City, including steel tank and tower, to the SOUTHWESTERN BRIDGE CO., of Joplin, Mo.

FORT SMITH, ARK.—M. J. Dodd, of Fort Smith, and R. Bittles, of Greencastle, Ind., will construct a manufacturing plant here to cost $25,000. The plant will consist of three buildings, the main building being 40 × 80 ft. and 20 × 70 ft.

SNYDER, TEX.—W. B. Guitar, of Snyder, is planning to erect a cotton seed oil plant here to cost about $100,000. There will be one 2-story brick building, 50 × 200 ft., and two frame buildings, one 60 × 100 ft., the other 70 × 200 ft. The power plant will have a capacity of 300 HP. E. T. Bicknell, of Colorado, Tex., is Des. Engr.

BARTLESVILLE, IND. T.—We are officially informed that the Lanyon Starr Smelting Co., of Bartlesville, has awarded contract for steel tank and tower to the SOUTHWESTERN BRIDGE CO., of Joplin, Mo.

SPOKANE, WASH.—The Ryan Knitting Co., of Detroit, Mich., it is reported, will erect a factory at the corner of Sprague Ave. and Grant St., to cost $50,000.

SEATTLE, WASH.—It has been announced that the Port Blakeley Mill Co. will commence work at once on erection of a mill to cost about $300,000. J. W. Eddy is Gen. Mgr.

LOS ANGELES, CAL.—Plans are being prepared by the Reinforced Concrete Pipe Co., Los Angeles, for building a plant to manufacture steel reinforcements and forms for concrete pipe. About $50,000 will be expended for this purpose.

MONTREAL, QUE.—Bids are asked by the Harbor Commission, David Seath, Secy., 57 Common St., Montreal, until June 5 for following equipment for the Belt Conveyor System for grain elevator in the Harbor of Montreal: Mechanical equipment, electrical equipment, telephone equipment, signal lights equipment and rubber belting. F. W. Cowie is Ch. Engr.

FORT WILLIAM, ONT.—The Northern Engineering & Supply Co. will construct a $25,000 addition to its plant here, in which it will construct heavy machinery.

WINNIPEG, MAN.—The Canadian Pacific Ry. Co. has awarded contract to J. McDERMAID CO., Langside and Portage Sts., Winnipeg, for putting up roundhouses on its line at Cranbrook, Coleridge, Strathcona and Swift Current. A. Price, Winnipeg, is Gen. Supt., Central Division.

EDMONTON, ALTA.—Bernard Barthel, 79 Dearborn St., Chicago, is preparing plans for a $450,000 brewing plant to be erected here by the Edmonton Brewing & Malting Co. It will have a capacity of 400 bbls. a day.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

MOLE, ETC.—Oakland, Cal.—See under Buildings.

LUMBER.—Duluth, Minn.—Bids are asked by Maj. Graham D. Fitch, Corps Engrs., U. S. A., until noon, June 12, for lumber. (Advertised, Engineering News.)

TRESTLE, ROCK WORK.—Portland, Ore.—Bids are asked by Lieut.-Col. S. W. Roessler, Corps Engrs., U. S. A., until June 5 for lumber and pile trestle and rock work.

DREDGING PLANT.—Detroit, Mich.—Bids are asked by Col. Charles E. L. B. Davis, Corps. Engrs., U. S. A., until June 6, for hire of dredging plant for use in Clinton River, Mich.

DREDGING.—Victoria Harbor, Ont.—Bids are asked until May 18, by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., for dredging required at Victoria Harbor during the present year.

CONSERVATORY.—Chicago, Ill.—The contract for erecting the conservatory in Garfield Park has been awarded to CHAS. E. CARSON, 159 La Salle St., at $159,949. Bids were received on May 12.

HYDRAULIC DREDGE.—Washington, D. C.—Bids are asked by Capt. Spencer Cosby, Corps Engrs., U. S. A., until noon, June 13, for constructing a 10-in. hydraulic dredge. (Advertised, Engineering News.)

UNDERPASS.—Atlanta, Ga.—Contract for constructing Pryor St. underpass has been awarded to GUDE & WALKER, of Atlanta, at $8,780. Contract is to be completed in 120 working days. Noted on May 2.

RIPRAP.—Washington, D. C.—Bids are asked until 10 a. m., June 7, for furnishing and placing riprap stone in Anacostia River, D. C. Capt. Spencer Cosby, Corps Engrs., U. S. A. (Advertised, Engineering News.)

CEMENT.—New York, N. Y.—One bid was received on May 13 by J. A. Bensel, Comr. of Docks, for furnishing about 10,000 bbls. of Portland cement. It was submitted by John P. Kane, 287 Fourth Ave., at $1.62 per bbl.

VESSELS.—Washington, D. C.—The Light House Board, Washington, D. C., has awarded to the NEW YORK SHIPBUILDING CO., Camden, N. J., contract for the construction of eight light vessels, at $164,000 apiece.

JETTY WORK.—Sabine Pass, Tex.—Bids are asked by Capt. J. F. McIndoe, Corps Engrs., U. S. A., 1539 Louisiana Ave., New Orleans, La., until 11 a. m., June 15, for jetty work at Sabine Pass, Tex. (Advertised, Engineering News.)

DREDGING.—Galveston, Tex.—Bids are asked until May 29 for dredging in Galveston Harbor. Estimated quantity of earth excavation, 450,000 cu. yds. Estimated cost, $45,000. Maj. Edgar Jadwin, Corps Engrs., U. S. A., at Galveston.

BREAKWATER.—Petoskey, Mich.—Bids are asked by Col. M. B. Adams, Corps Engrs., 57 Park St., Grand Rapids, Mich., until 3 p. m., May 29, for extension and repair of breakwater at Petoskey, Mich. (Advertised, Engineering News.)

SHELTER FOR SEARCH-LIGHT TRUCKS—Fort Totten (Whitestone post-office), N. Y.—Bids are asked until 10 a. m., June 10, by the Constructing Quartermaster, Fort Totten, for constructing a shelter for search-light trucks at this post. (Advertised, Engineering News.)

TELEPHONE SYSTEM.—Pincher Creek, Alta.—The town has granted a 10-year franchise to J. E. Wood, C. E., to construct a telephone system and town reserves the right to purchase at cost at the end of ten years or to renew the franchise for another ten-year term.

CAISSON, LIGHT-HOUSE FOUNDATION.—Philadelphia, Pa.—Bids are asked until 11 a. m., May 28, by the Light-House Engineer for sinking a caisson and erecting the foundation of the elbow of Cross, Ledge Light-House, Delaware Bay, N. J. (Advertised, Engineering News.)

DAMS AND SHORE PROTECTION.—Rock Island, Ill.—Bids are asked until 2 p. m., June 14, by Maj. C. S. Riche, Corps Engrs., U. S. A., Rock Island, for construction and repair of dams and shore protection between Rock Island, Ill., and Burlington, Iowa, and between Burlington and Hannibal, Mo. (Advertised, Engineering News.)

CEMENT.—Los Angeles, Cal.—Bids are asked by the Board of Public Works until June 14 for the delivery of 30,000 bbls. of Portland cement 60 days after execution of contract; also for the delivery of 1,250,000 bbls. of Portland cement, delivery to commence twelve months after execution of contract. H. B. Ferris, Secy., Board Public Works.

FIRE ENGINES, ETC.—Washington, D. C.—Bids are asked by the District Commissioners until noon, May 24, to furnish the fire department of the District of Columbia with two second-size steam fire engines, one 75-ft. aerial hook and ladder truck, and one 65-ft. aerial hook and ladder truck, two combination chemical and hose wagons, and one chemical engine.

DIKE.—Grand Chain, Ill.—Bids are asked at the U. S. Engineer Office, Cincinnati, Ohio, until 2 p. m., June 6, for building a dike and shore protection in the Ohio River, near Grand Chain. Specifications and bidding sheets are on file at office of Engineering News, New York. Lieut.-Col. William T. Russell, Corps Engrs., U. S. A. (Advertised, Engineering News.)

RETAINING WALL.—Oneida, N. Y.—Bids are asked by F. C. Stevens, Supt. of Public Works, Capitol, Albany, until noon of May 28, for furnishing materials and for work of constructing a third-class Portland cement concrete retaining wall along the west side of Oneida Feeder, in the city of [illegible]eida, N. Y., from the Cedar St. bridge to [illegible] bridge connecting Elizabeth and Spring [illegible], together with the necessary excavation [illegible] and backfilling.

VACUUM PLANT.—New York, N. Y.—Bids were received as follows on [illegible] 14, 3 p. m., by Bellevue and Allied Hospitals for a vacuum dust sweeping and cleaning plant in pavilions A and B of the New Bellevue Hospital, First Ave. and 26th St., 4 26th Sts., Boro. of Manhattan: Vacuum Cleaning Co., 427 Fifth Ave., $5,700; Sanitary Carpet Cleaning Co., 226 East 86th St., $7,124.

DREDGING.—New York, N. Y.—Bids were received on May 13 by J. A. Bensel, Comr. of Docks, for dredging about 1[illegible],000 cu. yds. on the East and Harlem Rivers, Boros. of Manhattan, Brooklyn, Queens and the Bronx, and in the Boro. of Richmond, as follows: Maritime Dredging Co., 78 Broad St., New York, 21 9/10 cts. per cu. yd.; R. G. Packard & Co., 130 Pearl St., New York, 21 8/9 cts. per cu. yd.

BREAKWATER.—Newport, R. I.—Bids were received on May 1 by Lieut.-Col. J. H. Ward, Corps. Engrs., U. S. A., for constructing a breakwater at Point Judith, R. I., as follows: Rockport Granite Co., Rockport, Mass., $2.23 per ton of 2,000 lbs.; E. S. Belden & Sons., Hartford, Conn., $2.31, stone in place; SEACOAST CONSTRUCTION CO., 225 Fifth Ave., New York, N. Y. (awarded contract), $2.18.

PUBLIC BATH.—Albany, N. Y.—Bids were received by the Board of Contract and Supply, Albany, on May 6 for furnishing all materials and performing all the work necessary for erection and completion of Public Bath No. 3, at corner of Central Ave. and Ontario St. Estimated cost, $45,000. Contract was awarded to MORRIS KANTROWITZ, 78 State St., Albany. Isidore Wachsman is Clerk of the Board.

DAM, BRIDGE.—Eau Claire, Wis.—It is proposed to build a pile dam 20 ft. wide and 6 ft. high on a gravel river bottom; on this it is proposed to carry up concrete piers for a bridge over the dam of 50 ft. spans, as ordinary road bridge 20 ft. wide. The extreme height the dam can be built—or head of water—is only 8 ft.; cost about $30,000. The dam is simply for sanitary and flowage purposes, not for power. The river is about 650 ft. wide in city. Propositions will be received from any one wishing to make them on the foregoing statement. Address W. H. Frawley, Mayor.

JETTY.—Nantucket, Mass.—Bids were received at the U. S. Engineer office, Newport, R. I., on May 8, for jetty construction at Nantucket. Lieut.-Col. J. H. Willard, Corps Engrs., U. S. A., Officer in Charge. (Advertised, Engineering News.) The bids were as follows: Rate per ton of 2,000 lbs., stone in place: (A) extension of jetties, 15,000 tons; (B) building up east jetty, 3,500 tons; (C) repairs to jetties, 500 tons: William S. White, Rockland, Me., (A) $2.65, (B) $2.65, (C) $2.65; Rockport Granite Co., Rockport, Mass., (A) $2.16, (B) $2.63, (C) $2.63; E. S. BELDEN & SONS, Hartford, Conn. (awarded contract), (A) $1.69, (B) $2.39, (C) $2.39.

TIMBER.—Portland, Ore.—The Reclamation Service is endeavoring to secure purchasers for a large quantity of standing timber immediately surrounding Lakes Cleafum, Kachess and Keechelus, all in Kittitas County, Wash. This timber is now occupying lands which will be submerged when the storage dams which the Reclamation Service is building at the outlets of the above named lakes are completed and sealed proposals will be received at the office in Portland, Ore., until Sept. 2 for its purchase. The contract will involve about 63,000,000 ft. B. M., of merchantable timber, 2,000 telephone poles, and 20,000 railroad ties. Purchasers will be given ten years in which to remove the timber.

SUBWAY.—New York, N. Y.—Two bids were received by the Board of Rapid Transit Commissioners on May 14 for building the section known as Route No. 9, in Centre St. (Manhattan) and other streets in the Boroughs of Manhattan and Brooklyn, including ultimately Delancey St., Grand St., Desbrosses St., Canal St. and William St., in Manhattan, and Fulton St., Lafayette Ave. and Broadway, in Brooklyn. Bids are now asked to construct that part which is situated in Centre St., between Canal St. and Broome St. The general plan of construction calls for a sub-surface railroad. There will be four tracks in Centre St. and provisions for a spur turning west into Grand St. Bion L. Burrows, Secy. (A), railroad; (B), pipe gallery; (C), total. The bids were as follows: The Cranford Co., 52 Ninth Ave., Brooklyn, (A) $2,150,000, (B) $60,000, (C) $2,210,000; Degnon Contracting Co., 60 Wall St., (A) $2,800,000, (B) $75,000, (C) $2,875,000.

ORDNANCE.—Washington, D. C.—Bids were opened May 8, at the office of the Chief of Ordnance, Navy Dept., Washington, for 18 sets of castings, as follows: (a) bronze castings, (b) manganese bronze castings, (c) steel castings, (d) iron castings, per lb. Fore River Ship Building Co., Quincy, Mass., (a) 43 cts.; Paul Reeves & Sons, Philadelphia, (a) 39.23 cts., (b) 31.75 cts.; Newport News Shipbuilding & Dry Dock Co., (a) 36 cts., (b) 35 cts., (c) 11 cts., (d) 5 cts.; Bethlehem Steel Co., South Bethlehem, Pa., (a) 36.5 cts., (b) 35 cts.; Wm. Cramp & Sons Shipbuilding & Engine Co., Philadelphia, (a) 33.95 cts., (b) 33.4 cts., (c) 7 cts., (d) 3 cts.

Bids were opened May 7 at the Bureau of Ordnance, Navy Dept., Washington, for furnishing (a) 12 12-in. breech-loading rifle guns and (b) three 7-in. same, as follows: Bethlehem Steel Co., South Bethlehem, Pa., (a) $69,000 each, delivery first in 23 months, rest every month thereafter; (b) $22,000 each, each 18 months, every two months thereafter; Midvale Steel Co., Philadelphia, (a) $69,000 each, 23 months, one month thereafter; (b) $23,200, 20 months, every 75 days.

U. S. POSSESSIONS AND CUBA.

STEEL RAILS, ETC.—Panama.—Bids are asked until 10:30 a. m., May 20, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for the following materials: 5,000 gross tons, 70-lb. steel rails, 30,000 steel splice bars, 295,000 tie plates, 300,000 lbs. track spikes, 60,000 lbs. track bolts, 65,000 nut locks, 25 car wheels, 1,000 pieces rough white oak lumber, 5,000 piles.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

AMERICAN MACHINERY OR PATENTS for introduction in European countries are desired by Mr. W. M. Nones, who is now in the United States in search of important lines of manufacture suitable for exploitation abroad. Mr. Nones is connected with well known manufacturing interests in Germany and other countries. His New York address is care F. & J. Meyer, 116 Broad St., New York City.

CIVIL SERVICE EXAMINATIONS.

FOREMAN CARPENTER.—Albany, N. Y.—The following persons passed the State Civil Service examination held on April 20 for foreman carpenter, and are eligible for appointment in the State service: George H. Stalker, 10 De Jonge St., Rochester, 88.28; Byron E. Woods, 2 Gates St., Palmyra, 86; Joseph G. Hiehler, 324 Colvin St., Rochester, 82.28; Lester C. Fox, Boonville, 80.63; Robert R. Cruser, 147 Hawley St., Lockport, 75.22; Frederick Frey, 78 West St., Albany, 75.04; Benjamin A. Warrall, 38 East Grand Ave., Corona, 75.

AID AND LABORATORY APPRENTICE.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 5, 1907, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Aid at $600 a year and Laboratory Apprentice at $480 and $540 a year in the Bureau of Standards Department of Commerce and Labor, and in other branches of the service in which vacancies may arise requiring similar qualifications. More than one day may be required for this examination. Men only will be admitted to this examination. Age limit 20 years or over for aid; 17 years or over for laboratory apprentice. Application Form 1312.

STEAM FITTER.—Fort Leavenworth, Kan.—An examination is to be held by the U. S. Civil Service Commission on June 5, 1907, to secure eligibles from which to make certification to fill a vacancy in the position of expert Steam Fitter, $1,000 a year, Quartermaster's Department at Large, U. S. Military Prison, Fort Leavenworth, Kan., and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants must indicate in their applications that they are experienced steam fitters and are able to lay out and put in a steam-heating plant. No educational test will be given, and it will not be necessary for applicants to appear at any place for examination. Age limit, 20 years. Application Form 1093.

COMPUTER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 5-6, 1907, to secure eligibles from which to make certification to fill two vacancies in the position of piece work Computer, Naval Observatory, Washington, D. C., and similar vacancies as they may occur in that observatory. The department states that miscellaneous computers are paid by the hour and earn from $800 to $1,000 a year. Promotions are made from this grade without further examination in the grade of computer, at $1,200 a year, as vacancies occur. As an insufficient number of eligibles were secured as the result of the examinations held on December 12-13, 1906, January 29-30 and March 13-14, 1907, to meet the needs of the service, qualified persons are urged to enter this examination. Age limit, 20 years. Application form 1312.

FOREMAN OF PUBLIC WORKS.—Albany, N. Y.—The following persons passed the State Civil Service examination held on April 20 for Foreman of Public Works, and are eligible for appointment in the State service: Willis N. Dutcher, 1210 Willis Ave., Syracuse, 92.95; Frank E. Kent, 69 Melrose St., Rochester, 91.85; Wilkes D. Dodge, Boonville, 89.68; Patrick R. Kiely, 117 McTernan Ave., Syracuse, 89.12; Lee L. Sherman, 301 Monroe Ave., Rochester, 88.12; William H. McKernan, Ellicottville, 88.05; Asa F. Mead, 153½ West Main St., Amsterdam, 87.12; James M. O'Connell, Plattsburgh, 87.08; John McKenzie, 2535 Sixth Ave., Troy, 86.02; Richard S. Hodge, 40 Eagle St., Albany, 86.65; Frank J. Savage, 43 Mortimer St., Buffalo, 84.82; Charles H. Connor, 126 South James St., Rome, 84.82; Charles H. Van Vorst, 98 Broadway, Rochester, 84.03; Cornelius Smith, Geological Hall, Albany, 83.32; William F. Consadine, 33½ Emmett St., Rochester, 80.92; John H. Kelly, 1002 Burnett Ave., Syracuse, 80.25; Ira Ganong, Box 243, Mount Kisco, 80.02; David H. Rivenburg, 52 Broad St., Amsterdam, 79.28; John Parsons, 106 Henry St., Syracuse, 78.08; Elbert C. Hardy, 338 Bryant St., Buffalo, 77.52; Arthur V. Meeker, 345 South Ave., Syracuse, 77.42; Thomas G. Mangan, 64 Lock St., Lockport, 76.18; Thomas H. Bell, 208 West 103d St., New York, 75.

INSPECTOR OF CONSTRUCTION.—Sheridan, Wyo.—The U. S. Civil Service Commission announces an examination on May 29, to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Superintendent of Construction, $900 a year, Sheridan, Wyo. (for duty at Fort Mackenzie, Wyo.), in the Quartermaster's Department at Large, and vacancies as they may occur in any branch of the service requiring similar qualifications. The work required of an inspector of construction in the Quartermaster's Department consists in directly supervising on the ground construction work in progress. The appointee should have sufficient ability to read and interpret plans and specifications to enable him to determine whether work is being done in accordance with them; should be able with an instrument to give lines and levels, and have knowledge of and practical experience with the use of materials of building construction, including those pertaining to sewerage, plumbing, and heating, to be able to determine in all cases whether they conform in all respects to the requirements of specifications and are properly assembled and placed. The inspector will not be required to plan or lay out original work. It is desired to secure as applicants for this position young men recently from technical schools who have not yet acquired the practical experience to justify placing them in charge of work for which experienced civil engineers and superintendents of construction are required. Applicants who have not had sufficient training and experience to entitle them to a rating of 70 per cent. or more in this subject will not be admitted to the examination. Age limit, 20 years or over. Application form 1312.

LABORATORY ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 29, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Laboratory Assistant in the Dept. of Agriculture, at $900 to $1,000 a year.

There is now a vacancy in the Bureau of Animal Industry.

Competitors will not be assembled for any of the tests.

Applicants must indicate in their applications that they have had at least two years' instruction in chemistry in a collegiate course or that they have attained an equivalent education in chemistry or any allied science.

The duties of this position are those of an assistant in a laboratory in which opportunities are offered for practical experience in applied science. The chances of advancement are considered good.

Men only will be admitted to this examination.

Age limit, 18 to 25 years. Application form 304 and special form.

An examination will be held also on May 29 to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Assistant (qualified as glass blower), in the Bureau of Chemistry, Dept. of Agriculture, at $1,000 a year, and vacancies as they may occur in any branch of the service requiring similar qualifications. Applicants must show in their applications that they have had at least five years' practical experience in glass blowing, consisting of the construction and designing of all sorts of vacuum tubes, glass measuring apparatus, and the most intricate physical and chemical apparatus. Experience in commercial glass blowing—bottles, window glass, etc.—will not be accepted. Age limit, 20 years or over. Application form 1312.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 184.

COUNTY BRIDGE.

Reading, Pa.

Sealed proposals will be received at this office up to 10 A. M., Friday, May 24th, 1907, for the erection of a reinforced concrete arch bridge in Douglass Township (50 foot clear span and wing walls), to be known as the Iron Stone Bridge over Iron Stone Creek at a point where the Public Road leading from Pottstown to Boyertown crosses said Creek, and about a mile south of Boyertown.

All bids must be accompanied by a certified check equal to 10% of the aggregate amount of the bid. The right is reserved to reject any or all bids.

H. F. LIVINGOOD,
County Controller.

County Controller's Office,
May 10th, 1907. 20-1t

PAVING.

Halifax, N. S.

Sealed tenders, addressed to His Worship the Mayor, and endorsed "Tender for Paving," will be received at this office until noon, on Monday, May 27th, 1907, for paving portions of six streets with a sheet pavement with ten years' guarantee.

Specifications and full information may be obtained at the City Engineers' office.

The right is reserved to reject any or all tenders or to accept any tender that may be considered in the interest of the City.

Satisfactory security will be required.

By order.

J. J. HOPEWELL,
Clerk of Works.

Clerk of Works' Office,
Halifax, N. S., May 11th, 1907. 20-1t

WATER-WORKS.

Bellaire, O.

The Board of Public Service of the City of Bellaire, Ohio, will receive sealed proposals until twelve o'clock, noon (Central Standard Time), of the 12th day of June, 1907, for the following named labor and materials for additions to the water-works plant of the City of Bellaire, Ohio:

One Vertical Pumping Engine, six million gallons capacity in twenty-four hours.

Material and labor for one brick building.

Material and labor, concrete foundations.

All proposals must be on the blank form of proposals adopted by said Board of Public Service of Bellaire, Ohio.

Each proposal must be accompanied by a certified check in the sum of ten per cent. of the amount of the proposal. Said check must be drawn payable to R. E. Crow, clerk. Said check to be returned to all but the successful bidder, when same is determined, and to him when contract and bond are properly signed and accepted. Failure on part of the successful bidder to do so forfeits said check to the City of Bellaire, Ohio, as liquidated damages.

Each proposal must contain the name of every person, firm or corporation interested therein.

Bond in the sum of fifty per cent. of the amount of the contract will be required, and said bond must be satisfactory to said Board of Public Service of Bellaire, Ohio, and must conform to the laws of the state of Ohio.

Each proposal must be endorsed "Proposal for water-works improvement" and giving division, or divisions, of the specifications under which said proposal is made.

Plans and specifications for this work and material are on file in the office of the undersigned, and in the office of G. L. McKibben, consulting engineer, Van Wert, Ohio.

Proposals will not be considered for pumping engine except from firms who are builders of this type of engine and who can show similar types of equal or larger capacity in successful operation.

The Board of Public Service reserves the right to reject any or all bids.

By order of the Board of Public Service of Bellaire, Ohio.

By R. E. CROW,
Clerk of B. P. S.

Bellaire, Ohio, May 14th, 1907.

Bidders are requested to state at what price they will install an additional pump of the same or a similar make as advertised for above.

However, it must be remembered that this is an informal request, and must not be mentioned or referred to in the formal bid, nor enclosed with "Proposal for water-works improvement."

R. E. CROW,
20-4t Clerk of Board of Public Service.

Department of Public Works,
Bureau of Filtration,
Office, 710 City Hall,
Philadelphia, May 9th, 1907.

Sealed proposals, endorsed "Bids for Filtering Materials and Collectors," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on Friday, May 31st, 1907, for Contract No. 118—Filtering Materials and Collectors for the Torresdale Filters.

Specifications, drawings and blank forms upon which bids must be made can be obtained from the Chief Engineer of the Bureau of Filtration, Room 712, City Hall, to whom all communications should be addressed.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

GEORGE R. STEARNS,
20-3t Director.

PIPE, HYDRANTS, ETC.

Nacogdoches, Tex.

Sealed bids will be received by the Mayor and City Council of Nacogdoches, Texas, and by them publicly opened on Monday, June 3, 1907, for the purchase by said city of all the pipe, hydrants, valves and boilers required in the extension of the present water system. Specifications can be procured from O'NEIL ENGINEERING COMPANY, Dallas, Texas. 20-3t

SEWERS.

Springfield, Ohio.

Sealed proposals will be received at the office of the Clerk of the Board of Public Service, Springfield, O., until 12 o'clock noon, Tuesday, June 4th, 1907, for the construction of an Outfall Sewer and temporary outlet for the sanitary system of sewerage, adopted Dec. 27, 1904, along the east and west right of way lines of the Peoria Division of the C. C. C. & St. L. Ry., from Walter and Main Streets to the Dayton Pike and through the lands of John Woods to Mad River, on the following approximate quantities:

1,704 lin. ft. 24" vitrified pipe, concrete or reinforced concrete sewer.
228 lin. ft. 24" iron culvert pipe.
48 lin. ft. 16" iron culvert pipe.
48 lin. ft. 18" iron culvert pipe.
96 lin. ft. 36" iron culvert pipe.
4,464 lin. ft. 36" vitrified pipe, concrete or reinforced concrete sewer.
1 concrete outlet at Mad River.
18 round brick or concrete manholes, 4 ft. diam., average 10' deep.
1 special manhole with force main connections.
2 special drop manholes.
1 concrete box culvert.
5,950 cu. yds. rock excavation.

All bids must be made upon the printed forms to be obtained at the office of the Department of Public Service and enclosed in a sealed envelope directed to the Board of Public Service, Springfield, Ohio, and endorsed upon the outside of the envelope "Proposals for construction of temporary outlet and outfall sewer, in the City of Springfield, Ohio."

The bond required of the successful bidder will be in the sum equal to 50% of the estimated cost of the work and each bid must be accompanied by a bond in the sum of $1000.00 with two sureties or a Surety Company authorized by laws of Ohio, to the approval of the Board, or a certified check upon some solvent bank in like amount, as a guarantee that if the bid is accepted a contract will be entered and its performance properly secured.

The right is reserved to reject any and all bids.

By order of the Board of Public Service.
20-2t F. A. CROTHERS, Clerk.

DAM.

Fergus Falls, Minn.

Bids are asked for all labor and material necessary to construct a cement concrete dam and brick power-house at Fergus Falls, Minnesota, according to plans and specifications on file at the office of the city clerk, Fergus Falls, Minnesota, and at the office of R. S. Feurtado, 902 Great Northern Building, Chicago, Illinois. Contractors are also asked to submit bids for constructing the proposed dam and power house complete, furnishing all labor and materials necessary, except cement.

Every bidder will be required to deliver with his bid a certified check on some reputable bank in the state of Minnesota, payable to the City of Fergus Falls, for at least ten per cent. of the total amount of such bid, which check and the amount thereof shall be forfeited to the city of Fergus Falls as liquidated damages if the bidder, upon the letting of the contract to him, shall fail to enter into the contract so let.

Bids will be opened at 8 o'clock p. m., May 28, 1907.

The city council reserves the right to reject any and all bids.

20-2t G. H. GARD, City Clerk.

ROADS.

Freehold, N. J.

Sealed proposals to build a stone road in Monmouth County, New Jersey, known as the Eatontown and Colts Neck road, beginning in the middle of the public road leading from Colts Neck to Eatontown, where the same crosses the middle of Yellow Brook, in the Town of Colts Neck, and extending to a point in said road three hundred feet east of the first angle of the road leading from Tinton Falls to Leedsville, a distance of seventeen thousand one hundred and fifty-three feet, as designated upon the plans and specifications, will be received by the Board of Chosen Freeholders of the County of Monmouth, New Jersey, at the Court House in Freehold on the twelfth day of June, 1907, at 11 o'clock in the forenoon of said day, and then and there publicly opened. Specifications and information regarding said

construction may be obtained by applying to William H. DeNyse, Engineer, at his office in Long Branch, New Jersey, or at the Freeholders' Office in the Court House at Freehold, or at the office of the State Commissioner of Roads, Trenton, N. J.

Each bidder must accompany his bid with a certified check for One Thousand Dollars, payable to the Director of the Board of Chosen Freeholders, as a guarantee, if said work is awarded to him, he will enter into a contract with the said Board, for the due and faithful performance of the same, which contract must be executed together with the bond of the successful bidder, within the term of thirty days from the time of awarding the contract in the penal sum of at least the total estimated cost of the work, with two or more freeholders, or a good and sufficient surety or trust company; all to be first approved by the Director of the Board and State Commissioner of Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Board reserves the right to reject any or all bids.

The Board also reserves the right to limit the number of feet to be built.

Dated May 8th, 1907.

W. B. CONOVER,
Director.

Attest:
GEO. W. PATTERSON, Jr.,
Clerk. 20-4t

COUNTY BRIDGE.

Reading, Pa.

Sealed proposals will be received at this office up to 10 A. M., Friday, May 24th, 1907, for the erection of a reinforced concrete arch bridge in Windsor Township (36 foot clear span and wing walls), to be known as Kershners Bridge over Stoyers Creek at a point leading from Hamburg to Windsor Castle, and one mile south of Hamburg.

All bids must be accompanied by a certified check equal to 10% of the aggregate amount of the bid. The right is reserved to reject any or all bids.

H. F. LIVINGOOD,
County Controller.

County Controller's Office,
May 10th, 1907. 20-1t

WATER-WORKS.

Comanche, Ind. T.

Sealed bids will be received by the Mayor and City Council of Comanche, Ind. T., and by them publicly opened, Tuesday, May 28th, 1907, for the purchase by said city of all the pipe, hydrants and valves, boilers, feed water heater, pumps, boiler feed pumps, cement, sand, stone, brick and all other material required in the construction of a complete system of water-works. Specifications can be had by applying to O'NEIL ENGINEERING COMPANY, Dallas, Texas. 20-2t

PAVING, SEWERS.

Oil City, Pa.

Sealed proposals will be received at office of the controller of Oil City, Pa., until 4 P. M., May 28, 1907, for constructing approximately ten thousand yards brick paving and forty-five hundred feet pipe sewer. Plans and specifications can be obtained at office of City Engineer, Oil City, Pa.

E. S. LAWRENCE,
20-1t City Engr.

U. S. ENGINEER OFFICE, 22d and K Sts., N. W., Washington, D. C., May 14, 1907.—Sealed proposals for constructing 10-inch hydraulic dredge will be received here until 12 M., June 13, 1907, and then publicly opened. Information furnished on application. SPENCER COSBY, Capt., Engrs. 20-4t

U. S. ENGINEER OFFICE, Rock Island, Ill., May 15th, 1907.—Sealed proposals for construction and repair of dams and shore protections between Rock Island, Ill., and Burlington, Ia., and between Burlington, Ia., and Hannibal, Mo., will be received here until 2 p. m., June 14, 1907, and then publicly opened. Information on application. C. S. RICHE, Maj., Engrs. 20-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 13, 1907.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 11th day of June, 1907, and then opened, for the steam heating and ventilating apparatus, etc., complete in place, for the U. S. Court House, Custom House and Post Office building at Seattle, Washington, in accordance with drawings and specification, copies of which may be had at this office or at the office of the Superintendent at Seattle, Washington, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 20-2t

SCHOOL.

Bayonne, N. J.

Sealed proposals will be received by the Board of Education of the City of Bayonne, at School No. 8, Avenue C and 27th Street, Bayonne, N. J., Thursday, June 20th, 1907, at 8.30 o'clock P. M., for all labor and material necessary for the construction of Public School Building No. 9, between East 25th and East 26th Streets, in the City of Bayonne, N. J., in accordance with plans and specifications for the same on file in the Superintendent's office, at School No. 8, Avenue C and 27th Street, Bayonne, N. J., and at the office of A. C. Longyear, architect, 126 Liberty Street, New York, where the form of contracts which will be executed can be examined, and where blank forms of proposals and agreement of sureties can be obtained.

Separate proposals will be received and separate contracts awarded for the General Work, for the Plumbing and Gas Fitting, and for the Heating and Ventilating, as follows:

GENERAL WORK.

All labor and materials necessary for the construction and completion of the building (excepting the plumbing, gas fitting, heating and ventilating), in accordance with the plans and specifications for the same.

No bid or estimate for the general work will be received or considered unless accompanied by a certified check drawn to the order of the City Treasurer, Bayonne, N. J., to the amount of three per cent. of the price bid, and no bid or estimate will be read until such check has been first examined by the Secretary of the Board of Education, and found to be correct. If not correct, the bid or estimate will be rejected. Bonds to the amount of twenty-five thousand dollars ($25,000) will be required of the successful bidder, for the faithful performance of the general work. Proposals accompanied by check must be enclosed in sealed envelopes endorsed. "Proposal for 'General Work' School No. 9, Bayonne, N. J.," and handed to the Secretary of the Board of Education in open meeting, when called for in the order of business relating to such proposals.

PLUMBING AND GAS FITTING.

All labor and materials necessary for the plumbing and gas fitting, in accordance with the plans and specifications for the same. No bid or estimate for the plumbing and gas fitting will be received or considered unless accompanied by a certified check drawn to the order of the City Treasurer, Bayonne, N. J., to the amount of 5 per cent. of the price bid, and no bid or estimate will be read until such check has been first examined by the Secretary of the Board of Education, and found to be correct. If not correct, the bid or estimate will be rejected. Bonds to the amount of three thousand dollars ($3,000) will be required of the successful bidder for the faithful performance of the work.

Proposals accompanied by check must be enclosed in sealed envelopes, endorsed "Proposals for Plumbing and Gas Fitting, School No. 9, Bayonne, N. J.," and handed to the Secretary of the Board of Education in open meeting, when called for in the order of business relating to such proposals.

HEATING AND VENTILATING.

All labor and materials necessary for installing the Evans, Almirall & Co. Heating and Ventilating system, in accordance with the plans and specifications for the same.

No bid or estimate for installing the above-named heating and ventilating system will be received or considered unless accompanied by a certified check drawn to the order of the City Treasurer, Bayonne, N. J., to the amount of 5 per cent. of the price bid, and no bid or estimate will be read until such check has been first examined by the Secretary of the Board of Education, and found to be correct. If not correct, the bid or estimate will be rejected.

Bonds to the amount of three thousand dollars ($3,000) will be required of the successful bidder for the faithful performance of the work.

Proposals accompanied by check must be enclosed in sealed envelopes, endorsed "Proposals for Heating and Ventilating School No. 9, Bayonne, N. J.," and handed to the Secretary of the Board of Education in open meeting, when called for in the order of business relating to such proposals.

All certified checks, excepting those of the successful bidders, will be returned to the persons by whom they were submitted, within three days after the several contracts are awarded, and the successful bidders' checks shall be returned to them upon the execution of their respective contracts, and the delivery and approval of their respective bonds with proper sureties.

These contracts will be awarded subject to the issuance of the necessary bonds by the Mayor and Council for the construction of the building.

The Board reserves the right to reject any and all proposals.

By order of the Board of Education.

20-1t 22-1t R. T. HEWITT, Secretary.

FORT DADE, FLA., May 15, 1907.—Separate sealed proposals will be received until 8 P. M., June 15, 1907, then opened, for construction of 150,000-gallon steel tank and trestle, and for installing ice and refrigerating plant here. Information on application. U. S. reserves right to accept or reject any or all proposals, or any part thereof. 1ST LIEUT. M. H. BARRY, Const'g Q. M. 20-4t

ROADS.

Freehold, N. J.

Sealed proposals to build the Allentown Stone road, located in the Borough of Allentown, 5,045 feet long, as designated upon the plans and specifications, will be received by the Board of Chosen Freeholders of the County of Monmouth, New Jersey, at the Court House in Freehold on the twelfth day of June, 1907, at 11 o'clock in the forenoon of said day and then and there publicly opened. Specifications and information regarding said construction may be obtained by applying to Peter Forman, Engineer, at his office near Manalapan, New Jersey, or at the Freeholders' office in the Court House at Freehold, or at the office of the State Commissioner of Roads, Trenton, N. J.

Each bidder must accompany his bid with a certified check for One Thousand Dollars, payable to the Director of the Board of Chosen Freeholders, as a guarantee, if said work is awarded to him, he will enter into a contract with the said Board, for the due and faithful performance of the same, which contract must be executed together with the bond of the successful bidder, within the term of thirty days from the time of awarding the contract in the penal sum of at least the total estimated cost of the work, with two or more freeholders, or a good and sufficient surety or trust company; all to be first approved by the Director of the Board and State Commissioner of Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Board reserves the right to reject any or all bids.

Dated May 8th, 1907.

W. B. CONOVER,
Director.

Attest:
GEO. W. PATTERSON, Jr.,
Clerk. 20-4t

ROADS.

Freehold, N. J.

Sealed proposals to make repairs to the stone road in Monmouth County, New Jersey, known as the Long Branch and Asbury Park Stone road, beginning at Broadway, Long Branch, and running to Deal Lake, Asbury Park, as designated upon the plans and specifications, which may be procured of William H. DeNyse, Civil Engineer, at his office at Long Branch, New Jersey, or at the office of the State Commissioner of Roads, Trenton, New Jersey, or the County Supervisor of Roads, Keyport, New Jersey, will be received by the Board of Chosen Freeholders of the County of Monmouth, New Jersey, at the Court House in Freehold on the Twelfth day of June, 1907, at 11 o'clock in the forenoon of said day, and then and there publicly opened.

Each bidder must accompany his bid with a certified check for One Thousand Dollars, payable to the Director of the Board of Chosen Freeholders, as a guarantee, if said work is awarded to him, he will enter into a contract with the said Board, for the due and faithful performance of the same, which contract must be executed together with the bond of the successful bidder, within the term of thirty days from the time of awarding the contract in the penal sum of at least the total estimated cost of the work, with two or more freeholders, or a good and sufficient surety or trust company; all to be first approved by the Director of the Board and State Commissioner of Roads, and conditioned for the faithful performance of the work in strict conformity with the plans and specifications.

The Board reserves the right to reject any or all bids.

Dated May 8th, 1907.

W. B. CONOVER,
Director.

Attest:
GEO. W. PATTERSON, Jr.,
Clerk. 20-4t

WATER-WORKS.

Thomas, Okla.

Sealed bids will be received by the Mayor and City Council of Thomas, O. T., and by them publicly opened, on Thursday, May 30th, 1907, for the purchase by said City of all the pipe, hydrants, valves, boilers, feed water heater, pumps, boiler feed pumps, air compressor, and all other supplies required in the construction of a complete water-works system. Specifications can be had from O'NEIL ENGINEERING COMPANY, Dallas, Texas. 20-2t

OFFICE OF THE COMMI[illegible]NERS, District of Columbia, Washingt[illegible] [illegible]ay 13, 1907 —Sealed proposals will be [illegible]ed at this office until 12 M., May 2[illegible] [illegible]7, for constructing a Municipal Crema[illegible] [illegible]n on Washington Asylum Grounds. [illegible] tions and necessary informa[illegible], specifications may be obtained at this office, Room 4[illegible] MACFARLAND, HENRY L. [illegible]NRY B. F. MORROW, Commissioners, D[illegible]EST, JAY J. [illegible] 20-2t

Situations Wanted

YOUNG MAN, age 27, desires position with contractor, as superinten[illegible], assistant superintendent or instru[illegible]tman; six years' experience. Can g[illegible] good references. Address "R. B. 1[illegible] Engineering News, New York. 20-2t

CIVIL ENGINEER.—Twenty[illegible] years of age; five-year technical [illegible]ation; two years experience assistant [illegible]gineer railway service; would like s[illegible]r position. Address 632 Neil Ave., Co[illegible]bus, Ohio. 20-1t

FOREMAN—Experience excava[illegible], grading, paving, sheeting, brick [illegible]ers, water pipe, concrete bridge pi[illegible] retaining walls, foundations, floors, [illegible]ile timber work. Doing work betwe[illegible] trains railroad. Address "M. A. 20," Engineering News, New York. 20-2t

SITUATIONS OPEN

WANTED.—Engineer with experience on both the design and construction of water systems, sewer system, and other general engineering. Permanent position. Address "S. C. 20," Engineering News, New York. 20-1t

WANTED.—Architect or engineer with experience on both the design and construction of factory buildings, both steel, brick and reinforced concrete. Permanent position. Address "W. C. 20," Engineering News, New York. 20-1t

WANTED.—Accurate and experienced structural draftsman in estimating department of contractor for iron work in buildings. Address "R. C. 20," Engineering News, New York. 20-2t

WANTED AT ONCE.—A good shop superintendent for highway bridge and structural plant, located between Chicago and Mississippi River, doing highway bridge work, some railroad work, and building work, employing 100 to 150 men. Man must have executive ability and be able to handle men to best advantage. Man without at least five years' experience in first-class bridge shop as foreman or assistant foreman and working in a satisfactory manner, need not apply. In first letter state age, married or single, nationality, give references, name of present employer, years of experience, least salary considered at start and date of reporting. First class opportunity, good salary and permanent position for good man. Must be absolutely temperate and a hustler. Others not wanted. Address "P. C. 20," Engineering News, New York. 20-3t

WANTED.—A man of experience and ability to design and to take charge of sales and installations of pulverizing machinery, tube mills, rotary dryers for sand, cement and other kinds of material. Give experience, present employment, salary required. Address "X. C. 20," Engineering News, New York. 20-3t

STRUCTURAL AND MACHINE WORKS desire one experienced in estimating time for shop operations and fixing price rates. One familiar with bonus system preferred. Position steady, pay promptly advanced according to work. Give full particulars and describe system with which you are now familiar. If reader is not personally interested, but knows some one who would fill above requirements, please cut out and mail to him this date. Address P. O. 3047, Philadelphia, Pa. 20-1t

WANTED.—A thoroughly capable builder of executive ability, capacity and management, to assist in an established and money making contracting business in Iowa. Good opportunity for a capable man, either with or without means, but ability must be proven. Must have full and definite information. Address "Z. C. 20," Engineering News, New York. 20-1t

FOR SALE

FOR SALE.

Two New 25 Kilowatt Direct Current Generators

125 volts, direct connected to two De Laval Turbines, for immediate delivery. Address THE NATIONAL CASH REGISTER CO., Dayton, Ohio. 20-1t

Books on LETTERING
By C. W. REINHARDT Price, $1.00
By Prof. H. S. JACOBY Price, $3.00

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